

# FIGURE 1

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1   acggcatcca gtacagaggg gctggaacttg gacccctgca gcagccctgc acaggagaag
61  cggcataata agccgcgctg cccgggagcc gctcggccac gtccaccgga gcatcctgca
121 ctgcaggggcc ggtctctcgc tccagcagag cctgcgcctt tctgactcgg tccggaacac
181 tgaaaccagt catcactgca tctttttggc aaaccaggag ctgagctgca ggaggcagga
241 tggctctggag gctggtcctg ctggtctctgt ggggtgtggcc cagcacgcaa gctggtcacc
301 aggacaaaga cagcaccctt gaccttttca gtatcagcaa catcaaccgc aagaccattg
361 gcgccaagca gttccgcggg cccgaccccg gcgtgcgggc ttaccgcttc gtgcgctttg
421 actacatccc accggtgaac gcagatgacc tcagcaagat caccaagatc atgcggcaga
481 aggagggtt ctctctcag gccagctca agcaggacgg caagtccagg ggcacgctgt
541 tggctctgga gggccccggt ctctcccaga ggcagttcga gatcgtctcc aacggccccg
601 cggacacgct ggatctcacc tactggattg acggcaccgg gcatgtggtc tccctggagg
661 acgtcggcct ggctgactcg cagtggaaga acgtcaccgt tctggtgggt ggcagagcct
721 acagcttgca cgtgggctgc gacctcatag gaccagttgc tctggacgag ccttctacg
781 agcacctgca ggcgaaaaag agccggtatg acgtggccaa aggtctctgc agagagagtc
841 acttcaggga tttgcttcag aaagtccacc tagtgtttga aaactctgtg gaagatatcc
901 taagacaagg ggggttgccag caaggccagg gagctgagat caacgccatc agtgagaaca
961 cagagacgct gcgcctgggt ccgcatgtca ccaccagta cgtgggcccc agctcggaga
1021 ggaggcccg ggtgtgcgaa cgctcgtgcg aggagctggg aaacatggtc caggagctct
1081 cggggctcca cgtcctcgtg aaccagctca gcgagaacct caagagagtg tcgaatgata
1141 accagtttct ctgggagctc attggtggcc ctctaaagac aaggaacatg tcagcttget
1201 ggcaggatgg ccggttcttt gcgaaaaatg aaacgtgggt ggtggacagc tgcaccacgt
1261 gtacctgcaa gaaatttaaa accatttgcc accaaatcac ctgcccgcct gcaacctgcy
1321 ccagtccatc ctttgtggaa ggcgaaatgt gcccttcctg cctccactcg gtggacgggtg
1381 aggagggtg gtctccgtgg gcagagtggg cccagtgtct cgtgacgtgt ggtctggga
1441 cccagcagag aggcgggtcc tgtgacgtca ccagcaacac ctgcttgggg cctcgatcc
1501 agacacgggc ttgcagtctg agcaagtgtg acaccgcgat ccggcaggac ggcggctgga
1561 gccactggtc accttgggtc tcatgtctgt tgacctgtgg agttggcaat atcacagca
1621 tccgtctctg caactcccc gtgccccaga tggggggcaa gaattgcaaa gggagtggcc
1681 gggagacca agcctgccag ggcgcccat gcccattcga tggcgcgtgg agccccgtg
1741 ccccgatggc ggctgacact gtcacctgtg ccggtgggat ccgggagcgc acccggtct
1801 gcaacagccc tgagcctcag tacggaggga aggcctgcgt gggggatgtg caggagcgtc
1861 agatgtgcaa caagaggagc tgccccgtgg atggtgttt atccaacccc tgcctcccg
1921 gagcccagt cagcagcttc cccgatgggt cctggtcatg cggcttctgc cctgtgggt
1981 tcttgggcaa tggcaccac tgtgaggacc tggacgagtg tgccctggtc cccgacctc
2041 gcttctccac cagcaagggt cctcgtctgt tcaacactca gcctggcttc cactgcctgc
2101 cctgcccgc cgcatacaga gggaaaccag ccgtcggggg cggcctggaa gcagccaaga
2161 cggaaaagca agtgtgtgag cccgaaaacc catgcaagga caagacacac aactgccaca
2221 agcacgcgga gtgcactctc ctgggtcact tcagcgaccc catgtacaag tgcgagtgcc
2281 agacaggcta cgcgggcgac gggctcatct gcggggagga ctcgacctg gacggctggc
2341 ccaacctcaa tctggtctgc gccaccaacg ccacctacca ctgcatcaag gataactgcc
2401 cccatctgcc aaattctggg caggaagact ttgacaagga cgggattggc gatgctgtg
2461 atgatgacga tgacaatgac ggtgtgaccg atgagaagga caactgccag ctctcttca
2521 atccccgcca ggctgactat gacaaggatg aggttgggga ccgctgtgac aactgccctt
2581 acgtgcacaa ccctgcccag atcgacacag acaacaatgg agaggggtgac gcctgctccg
2641 tggacattga tggggacgat gtcttcaatg aacgagacaa ttgtccctac gtctacaaca
2701 ctgaccagag ggacacggat ggtgacggtg tgggggatca ctgtgacaac tgcctcctgg
2761 tgcacaaccc tgaccagacc gacgtggaca atgacctgtg tggggaccag tgtgacaaca
2821 acgaggacat agatgacgac ggccaccaga acaaccagga caactgccc tacatctcca
2881 acgccaacca ggctgaccat gacagagacg gccagggcga cgcctgtgac cctgatgatg
2941 acaacgatgg cgtccccgat gacagggaca actgcccgtg tgtgttcaac ccagaccagg
3001 aggacttggg cgggtgatga cggggtgata tttgtaaaga tgattttgac aatgacaaca
3061 tcccagatat tgatgatgtg tgtcctgaaa acaatgcat cagttagaca gacttcagga

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FIGURE 1 (continued)

3121 acttccagat ggtcccttg gatcccaaag ggaccacca aattgatccc aactgggtca  
3181 ttccgcatca aggcaaggag ctgggtcaga cagccaactc ggaccccggc atcgctgtag  
3241 gttttgacga gtttgggtct gtggacttca gtggcacatt ctacgtaaac actgaccggg  
3301 acgacgacta tgctggcttc gtctttggtt accagtcaag cagccgcttc tatgtggtga  
3361 tgtggaagca ggtgacgcag acctactggg aggaccagcc cacgcggggc tatggctact  
3421 ccggcgtgtc cctcaagggtg gtgaactcca ccacggggac gggcgagcac ctgaggaacg  
3481 cgctgtggca caccggggaac acgcgggggc aggtgcgaac cttatggcac gacccagga  
3541 acattggctg gaaggactac acggcctata ggtggcacct gactcacagg cccaagaccg  
3601 gctacatcag agtcttagtg catgaaggaa aacaggtcac ggcagactca ggacctatct  
3661 atgaaccaaac ctacgctggc gggcggctgg gtctatttgt cttctctcaa gaaatggtct  
3721 atttctcaga cctcaagtac gaatgcagag atatttaaac aagatttgct gcatttccgg  
3781 caatgccctg tgcattgcat ggtccctaga cacctcagtt cattgtggtc cttgcggtct  
3841 ctctctctag cagcacctcc tgtcccttga ccttaactct gatggttctt cacctcctgc  
3901 cagcaacccc aaacccaagt gccttcagag gataaataatc aatggaactc agagatgaac  
3961 atctaaccca cttagaggaaa ccagtttggg gatataatgag actttatgtg gagtgaataa  
4021 tgggcatgcc attacattgc ttttcttctg ttgttttaaaa agaatacgt ttacatataa  
4081 aatgtaatta cttattgtat ttatgtgtat atggagttga agggaatact gtgcataagc  
4141 cattatgata aattaagcat gaaaaatatt gctgaactac ttttgggtgct taaagtgtgc  
4201 actattcttg aattagagtt gctctacaat gacacacaaa tcccgcataa taaattataa  
4261 acaagggtca attcaaattt gaagtaatgt tttagtaagg agagattaga agacaacagg  
4321 catagcaaat gacataagct accgattaac taatcggaac atgtaaaaca gttacaaaaa  
4381 taaacgaact ctctcttctg cctacaatga aagccctcat gtgcagtaga gatgcagttt  
4441 catcaaagaa caaacatcct tgcaaatggg tgtgacgcgg ttccagatgt ggatttggca  
4501 aaacctcatt taagtaaaag gttagcagag caaagtgcgg tgcttttagct gctgcttggtg  
4561 ccgttgtggc gtcggggagg ctctgcctg agcttccctc cccagctttg ctgcctgaga  
4621 ggaaccagag cagacgcaca ggccggaaaa ggcgcactca acgcgtatct aggtcttggg  
4681 aactgcggac aagttgcttt tacctgattt gatgatacat ttcattaagg ttccagttat  
4741 aaatattttg ttaatattta ttaagtgact atagaatgca actccattta ccagtaactt  
4801 atttttaaata tgcctagtaa cacatatgta gtataatttc tagaaacaaa catctaataa  
4861 gtatataatc ctgtgaaaat atgaggcttg ataataatag gttgtcacga tgaagcatgc  
4921 tagaagctgt aacagaatac atagagaata atgaggagtt tatgatggaa ccttaatata  
4981 taatgttgcc agcgatttta gttcaatatt tgttactggt atctatctgc tgtatatgga  
5041 attcttttaa ttcaaacgct gaaaacgaat cagcatttag tcttgccagg cacaccaat  
5101 aatcagtcac gtgtaatatg cacaagtctt tttttgtttt tgtttttttt gttggttggg  
5161 ttttttgctt taagttgcac gatctttctg caggaaatag tcaactatcc cactccacat  
5221 aaggggttta gtaagagaag tctgtctgtc tgatgatgga tagggggcaa atctttttcc  
5281 cttttctggt aatagtcac acatttctat gccaaaacagg aacgatccat aacttttagtc  
5341 ttaatgtaca cattgcattt tgataaaaatt aattttgttg tttcctttga ggttgatcgt  
5401 tgtgttggtt tgctgcactt tttacttttt tgcgtgtgga gctgtattcc cgagacaacg  
5461 aagcgttggg atacttcatt aaatgtagcg actgtcaaca gcgtgcaggt tttctgtttc  
5521 tgtgttggtg ggtcaaccgt acaatggtgt gggaaatgac atgatgtgaa tatttagaat  
5581 gtaccatatt ttttgtaaat tatttatggt tttctaaaca aatttatcgt ataggttgat  
5641 gaaacgtcat gtgttttgcc aaagactgta aatattttatt tatgtgttca catggtcaaa  
5701 atttcaccac tgaacacctg cacttagcta gaacctcatt tttaaagatt aacaacagga  
5761 aataaattgt aaaaaaggtt ttct

## FIGURE 2

1 mvwrlvllal wwwpstqagh qdkdttfdlf sisninrkki gakqfrgpdg gvpayrfvrf  
61 dyippvnadd lskitkimrq kegffltaql kqdgksrgtl lalegpglsq rqfeivsnpg  
121 adtldltywi dgtrhvvsle dvgladsqwk nvtvqvaget yslhvgcdli gpvaldepfy  
181 ehlqaeksrn yvakgsares hfrgllqnvh lvfensvedi lskkgcqqgq gaeinaisen  
241 tetlrlgphv tteyvgsse rrpevcersc eelgnmvqel sglhvlvnql senlkrvsnd  
301 nqflweligg ppktrnmsac wqgrfffaen etwvvdscct ctcckkftic hqitcpgpatc  
361 aspsfvegec cpsclhsvdg eegwspwaew tqcsvtcgsg tqqrgrscdv tsntclgpsl  
421 qtracslskc dtrirqdgw shwspwsscs vtcgvgnitr irlcnspvpq mggknckgsg  
481 retkacqgap cpidgrwspw spwsactvte aggirertrv cnspepgygg kacvgdvqer  
541 qmcnkrsrsv dgclsnpcfp gaqcssfpdg swscgfcpgv flngnthced ldecavpdi  
601 cfstskvprc vntqpgfhcl pcppryrgnq pvgvgleaak tekqvcepen pckdkthnch  
661 khaeciylgh fsdpmkcec qtgyagdgli cgedsdldgw pnlnlvcant atyhckdnc  
721 phlpnsgged fdkgigdac ddddddngvt dekdncqllf nprqadydkd evgdrcdncp  
781 yvhnpaqidt dnngedgacs vdidgddvfn erdnpcyvyn tdqrtdgdg vgdhcdncpl  
841 vhnpdqtdvd ndlvgdqcdn nediddghq nnqdnpcyis nanqadhrd gggdcdpdd  
901 dndgvpddrd ncrfvfnpdq edldgdgrgd ickddfdndn ipdiddvcpe nnaisetdfr  
961 nfmvpldpk gttqidpnwv irhggkelvq tansdpgiav gfdefgsvdf sgtfyvntdr  
1021 dddyagfvfg yqsssrfyvv mwkqvtqtyw edqptrygy sgvsllkvns ttgtgehlrn  
1081 alwhtgntpg qvrtlwldpr nigwkdytay rwhlthrpkt gyirvlvheg kqvmadsgpi  
1141 ydqtyaggrl glfvfsqemv yfsdlkyecr di

# FIGURE 3

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1   acttttcttgc tgetctgcct gcatggacct gtgacaggca tcatctatng aatctcatgn
61  agcgtcgact ccctgccccca ggcatagggtg agtggcaagt gagagctgct cacaggcatc
121 aaaggggtcaa aatagcaccac aaggccgggc atgannncac gcctgtaatc ccagtacttt
181 gggagggtga ggtaggcgga tcacctgagg tcaggagctc aaagccagcc tggccaacat
241 ggagaaaacc cgtctctact aaaaatacaa aaattagctg ggtgtggtgg tgtgtgcctg
301 taatcccagc tacttgaggc ctgaggcagg agaataactt gaaccggga ggcaaaagt
361 gcagtgcagc agattgcacc attgcactcg agcctgggga aaaagagcaa gactccatct
421 caaaaaaaaa aaaaaaaaaat tgcacctaa ccaagccca gaaggtggcc ccgaacctgg
481 gccttccttt gaagccaggc ctggtatttg ccaagatcgt gcctcctgcc cccacatcac
541 caadgttaac tgcctccat tgctgggtg tgccctgggtg ctgctggggc gctggcgtgt
601 gaaatggcaa catgaggccg tgtctactga gccaggcatc ttagtgcttt acacagagaa
661 gtgaaacctc ctagcaaccc tgtgagttag gtaccatttg attcccattt ttcagataag
721 gaaaccaagg cacaaagtgg ttggtagggtg gactaaggtc acccaacaaa tggaggcaaa
781 acgggacacg tgtccccacc aggagccacc agctgtccct ccttctccat cccacagact
841 gcgtgaagcc ctgggctact ctggctggat ggtatcaagt gtcacattct gtggagccag
901 gatgttcttc caatccttta atcccaaatc ttttattgtg tttgttttgt tttgttttga
961 cagagtcttg ctctgtcgtc caggctggag tgcgtggtg caatctcagc tcaactgcaac
1021 ctctgcctcc tgggttcaag tgattctcct gcctcatcct ccctagtagc tgggactaca
1081 ggtgcgccac accaagcccg gctaattttt gtattttttg ttgagacggg gtttcaccat
1141 gttggccagg ctggttatga actcctgacc tcaaatagat tgctgcctc agcctcccaa
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1261 ttttcctggt tctgcctcta gtgaaatcaa agatccctcc gctgctgtcc ctatgggaat
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1381 gccagctcc tcaagtcttc ctcaacacc ctcttctcca gccctgctgc cactctcccc
1441 acctgagtac agacctcat catttccac tgggccccct cttctcgtcc cccagctccc
1501 tntctcctag ntccatttat ttattctnat tttgnnagac ggagttttgc tcttgttgcc
1561 caagctggag tgcaatggcg cgatctcagc tcaactgcaac ctctgcctcc caggttcaag
1621 cgattttccn tgcctcagcc tccaagtag ctgggattac aggcattgac caccacaccc
1681 ggctaatttt ngtattttta gtagaggtgg ggtttctcca tgttggtcan ggctggtctc
1741 gaactccga cctcaggtga tccacctgcc tcagcctgcc aaagtgctgg gattnacagg
1801 cgtgancanc tgntgnccct gccctagtc cattttttt ttttttaatt gatcattctt
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1981 cgcagtgttt gtgtccctgg gtacttgaga ttagggagtg gtgatgactc ttaaggagca
2041 tgetgccttc aagcatctgt ttaacaaagc acatcttgca ccgcccttaa tccattcaac
2101 cctgagtggg tacagcacat gtttcagaga gcacagggtt gggggtaggg tcacagatca
2161 acaggatccc aaggcagaag aatttttctt agtacagaac aaaatgaaaa gtctcccacg
2221 tctacctctt tctacacaga cacggcaacc atccgatttc tcaatctttt cccaccctt
2281 ccccccttct tattccacaa aaccgccatt gtcacatgg cccgttctca atgagctggt
2341 gggtagacct cccagaccgg gtggtggcgg gccagagggg ctctcactt cccagtaggg
2401 gcggccgggc agaggcgccc ctcanccctc cggacggggc ggctggccgg gcggggggct
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2521 cagtaggggg gcggcgggcag aggcgcccct cacctcccgg acagggcggc tggccgggca
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2641 ccccctgacc cccccacct cctcccgga cggggcgctg gctggggcg gggctgacct
2701 ccacacctcc ctcccggaag gggcagctgg ccggggcggg ggetgacccc cccacctccc
2761 tcctggacgg agcggctggc cgggcagagg ggctcctcac tcccagtag gggcgggcgg
2821 gcagaggcgc cctcacctc cgggacgggg cggctggccg ggnacggggg ctgatcgccc
2881 cacnctccct cccggacggg gaggtggcc gggcgggggg ctgaccccc cactccttg
2941 ccggacgagg tggctgccc gcagagacgc tcctcacttc ccagacgggg tggcttctgg
3001 acgatgggc tcctcacttc tcagacgggg cgggtgccc gcggaggggc tcctcacttc

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# FIGURE 3 (continued)

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3061 tcagaggggg cgccggggca gagacgctcc tcacatcccg gacggggcgg cagggcagag
3121 gtgctcccca catctcagac gatgggcggc cgggcagaga cgctcctcac ttcccagatg
3181 ggatggctgc aggggaagagg cgctcctcac ttccctagatg ggatggcggc caggcagaga
3241 cgctcctcac gtcccagacg atgggcggct gggcagagac gctcctcact tcccagacgg
3301 ggtggcggcc gggcagaggc tgcaatctcg gcactttggg aggccaaggc aggctgctgg
3361 gaggtgaagg ttgtagcgag ccgagatcac gccactgcac tccagcctgg gcaccattga
3421 gcacggagtg aacgagactc cgtctgcaat cccggcacct caggatgccg aggctggcgg
3481 atcactcgcg gttaggagct ggagaccagc cgggccaaca cagcaaaacc ccgtctccac
3541 caaaaaataa cgaaaaccag tcaggtgtgg cggcgcgcac ctgcaatcgc aggcagtccg
3601 caggctgagg caggagaatc aggcagcagt accgtccagc ttcagctcgg catcagaggg
3661 angaccgtgg agagagggag agggagaccg tggggagagg gagagggaga gggagggaga
3721 gggagagggg gagggagagg tatgagctta gtccattttt atanncatgg ctctgaggat
3781 gctccaatct gaccacagct tctgttcaact tagcgccctg ccccggtgtc tcatcacctt
3841 ggggataaaa tccacactct gagagtgaagt gcaaagtctt tcttggcgtg gcctctgcct
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3961 ccagctccct ggcagggctg atagtgataa aatgttcagt agtcagcaat aaagaggcaa
4021 aaacagcaac actgatttat agatatgaaa tcaaccagat gtatcagcca agttgccagc
4081 attcctttct tggtcacaat atcttttatt ccaaacatcc tttctattta tttttgtag
4141 ttaagatttt attacttctt ttgtaaaacg gtggtgagaa taagggacta ttttttttaa
4201 atgtccttac ttggcaaaact aaaaaatgtt tgcaactcta gtaagactcc actgggagct
4261 caggggctgg ggtgcctgat ctggccctaa agcccccannn nnnnnnnnnn nnnnnncgac
4321 actgacctgg tgctgcgtg attcttcttc attgttccca gacagggggc aggaaatgga
4381 atgaaagcag ccactgtctg aagagctgga gaccatcatc tgctctgga agcccagaga
4441 acctcggctc agacagaagg acagagactg aggggaaggga gagagactgt gacagagag
4501 cagaggaggg tgacagagtc agggaggaac aaaacagcct gcagtgggag gaggggacaa
4561 aatgtggggg acccacaggg anggggaggg aggggaaggg gctggggaga ggcacctcc tctgttggc
4621 ctgccgtcca agtggcctg agagcctggg gctggggaga ggcacctcc tctgttggc
4681 ttctcataca gtctctatca ggggaccag gacacaagaa gcaaattcat ctttgggtcc
4741 acccttcagc tctagaagtc tagggcctgg ccaggtcctc tgaaggggtc tctggcccca
4801 ggcctcttcc tgccccctg cgtggcccc caagcccttc tcaagagccc ttcagtaaat
4861 aaattcactg gaagacatca atgatgggtc ataggaggtg ttcctagggg agaaaatgac
4921 atttagtttt tagctcactt ggagccattt gctttaagaa gcacctcttg gccaggcgca
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5041 caggagttca agaccagcct ggtcaacatg gtgaaaccct gtnctctact aaaaatacaa
5101 aaattagttg ggtgtggtgg catgtgcctg taatccoagc tgcttgggag gctgaggtga
5161 gagaatcgct tgaactcagg aggtggaggc tgcaagtgagc tgagatcaca ccaactgcatt
5221 ccagcctggg tgacacagtg agactatgtc taaaaaacia aaaacaaaaa cgaagcacct
5281 cttgagagag ctttgcatgc agatgtcaca ggcaaatgc ctcatgttgt ggggaatgtg
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5401 agggtnggct gggttgacag atgtgcagag aaggagagaa gtgggggcaa tgccttctct
5461 ctgatggtca gctggcggga aaggctccag gggcttctga ggagagacc taagaggact
5521 ctggatgggc ctgggctggg ggnaggctgg tgctgacctg gcacgtgggc actgtggggg
5581 tgcaatggg gacagtgtgg gaggtgtcat ggggggtctt tacactgggt actaaagagc
5641 ttaggagcct gactacctg gtgtggggca atcacatttg ctgctgtgtc caggcaaggga
5701 ggagcaggtg ggcttggaac ccaaagtga atgaagtggc caggactgag cgctgggcca
5761 acgtgagccc caggggggtg ttggatttat cagctgaaga agggcctatg gaaggggaga
5821 aaacaatcct ccagacagat gagagcactc agtcacatcc acctggacct gacatcacct
5881 cccaggtgtg gcaggggcac acacagaact ggaatgggta atgacttatt agagcctcct
5941 tccaacagct gtgggcccctg gaacctaaaga accaccttt ggagaacatt tttgggtctg
6001 agagctttga ggccaggcct tgagacaaac ccaccagaa gccctgagct acttttgctg
6061 taagagtagg nagggccctg cccctgctcc agggccggc ccttgatccc tggaagagaa
6121 ggaagcactg actgatccag aggggcgatg agtccagagg ctgagatcag ctggaaccgg

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# FIGURE 3 (continued)

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6181 gccaccagct gagcgtgtga ttcctctggc tccaggccac ctctgagggc ctcccaatgg
6241 ctgggagggg ttagaggact gtggcttctt ggggtgagga gcctctgggt tacagtcacc
6301 gtgccctttg aatctaactt gctctcgaca agaatacagc gacctgatag gcatgctcag
6361 gcaggaggca natggccagg gccaaagaga gcataaggat ggagtagagg agggagcaga
6421 gcagggtcag gtgaaatctc tcaactcagga caattgtgca gctgacttgc tgataccttg
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6541 cctgcagttt tggctcagaa cagccaccac atctcactg ctctcctggg atgagaaggt
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6661 aaacctcaga gcctcacagg ctttgaacaa agtgcaggag tcccagccct gccatttatg
6721 gcgggttccct ggcggtgatc agtcattatc agcagtatgt tcaactctgt gatatcacc
6781 aaggccatga tcatccctta cccaggccct tgcacacttg ctccctgtc cnnnnntaga
6841 cagctggggn nngctgttcc tgctcttcgc tggccctggc actcacagag cagctgactg
6901 actgacctac caacttaggg agaaaagtgg ggaggtgggg atggaggaca ctctggggat
6961 acagcctctt cgtgatttcc ttcctggagg ggagaggcgg ccagggaat gcaatgctgg
7021 ggctgcagtg cctccgctca gccacagcac tggctgcagg gcaaaccctc aggaccagat
7081 gaggggagct cagcctgatg tccaggttcg ctggcatgtg agggacgtgg tcaggcacag
7141 ctataggcat ggggtctatg acgggttctg gatccaggga attgctgggt ggggtccctga
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7681 acaggcatgc accaccacgc ctggctaatt tttgttttcc tttttgtatt ttttttagtg
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9121 agtgcgtgatt ctgcaggctg tggctcagtt ctgcactatt actctggctc cggcaaatcc
9181 tcatgaaaat aagcctggga gccccagggt ttgcagggtt gcccctaca gcttccctt
9241 gcatcatcct tgctcctcta accagggaca ctctgcctc ctccctgact atctctgcg

```

# FIGURE 3 (continued)

9301 ggттаacacc tgagcatctt ctggctcgat aattctgtca tgaccaata cgccttccct  
 9361 gaccctcaca tctgggttga gggccttcc atgcctgtga cctaactctg gttttccctc  
 9421 tgtaaggtgg tcagagatgg gcttgggcag agtagtttca aaggctctcc ccaaactctt  
 9481 gtgcagctcc cctgactgaa ggctgtgag aacaggggtg tgctgtctt gtctactgtt  
 9541 cccaataacc tcacctagtг cctggcacag agaagggtaca aaaataaaac tttccaaga  
 9601 atgaatgggtg tgcatttgaa tcttatagtг tctgaggact ggggaaccat ctcttatccc  
 9661 tttgtatcct ctgctgcccа aggtcagggc ctctgcctga agtcctact gaatgagggт  
 9721 taactgggtc agagatgagg gaggaagcca ttgctgggag gggctagaаn ctgggcccct  
 9781 gcccttccca caccgagca agagcagtag gattgtcaga tgaaacacag gacatctgct  
 9841 cacatgtgag gaatacatct ttttttaag acagattctc tctctgtcac ccaggnctg  
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 10021 tgttggtttt ttagtagaga cagggttttg cctcattggc aggtctgtct tggactcctg  
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 10921 aacagaaagg ctagcgtggт tctgcgatgt gggaaggгag tggaaacatg gaaacacagt  
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 11041 gctggagtgt aatggcgгgг tcttggtcа ccacaacctc tgctcctgg gttcaagtga  
 11101 ttctcttgcc tcagcctcg gagtagctgg gattacaggc atgtgccacc ccgcccggct  
 11161 аattttgtat ttttagtaga gatggggttt ctccacgttg gtcaggctgg tctctagctc  
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 11281 acnaactcag gaggcctgg aactcatctt gtgccactca agaaaggгca ggaggggtcc  
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 11881 tggctcagtt ccacctcaa tccacaggga ttctgcctgt tagcacgcta aggaaactgt  
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 12181 gggcctatct tgcccactgc ctgtggcaat nacacaggca atacacaaag cgcattcaag  
 12241 taagcaggtc tccctgcccc ccggcctccc agaacctcгг tgctggagg gcaggntggg  
 12301 ggnagggcгг tctgaatgg aggcgggttt cctctgcгг ggaggaaacc ccatttccct  
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# FIGURE 3 (continued)

12421	ccagcttcta	ggaagtctga	gctggggcccc	ttatctaccc	acagcacttc	ctggaccggg
12481	ggcctggacc	gggctccgaa	gggnctggnc	tcccggtctt	ggtcttggcc	tccggccctt
12541	cgtttctctg	cgctttgggc	aggggaagct	gcggacggca	agctctcggc	tttcgtgaga
12601	gcctgggtga	atcggtgttc	cccgaaggct	actctgcggg	ggcgggggct	agntccgggc
12661	cttcccggca	gtatcgctnt	cccccggtgg	ggctggggna	nggtngcccc	cagggctnnc
12721	ccggagcggc	ggcgtggcca	agggccgaac	cggtgtctgac	atctagtggc	ctctggggcc
12781	cgggcagggc	gagggncggg	gcaggggaaga	aggtggaggg	cagaatggga	ggcgtggagc
12841	gagaaaatca	ggaagcgcgg	gaccaagccg	gggaaggcg	gcgggtctcg	cccctggcac
12901	ccgtctctct	cggggcccgt	cccatcccc	aggcctggcc	gaccccaggt	ccttccgtgc
12961	gcagtccggg	ctcgcaagga	cgaatcccg	ggccctcgag	gcaggcccgg	gggagctccc
13021	ggccctccac	ccccgcaggc	cgcagatccc	acgcaccccc	gatcatgggg	gccccggagg
13081	gaggtcgcga	ggccgggctc	acggtggccg	cggttcgccc	acgtgcccgg	ccggagctgg
13141	cagggcccgg	tcccagcgt	ggccgcaacc	gcggggacct	ggcagctgcg	gggcagcccc
13201	gggggcccgg	tacgccactt	ccggtcccgg	agacaccgcc	cagcccggcg	cccgttggcc
13261	atggcgacgc	cgtcgcgcca	cggcccgcag	aaccggccaa	gcgacccggg	cgcggcgcgg
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13441	gcgcggggct	cccgagttag	agccggcctc	gcacctgccc	cttgccggcg	cgcactggac
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13561	gagcctctcc	cgggtccaggc	ggccccctgc	ctggcctgcc	cggtgcccgg	gtctctgtg
13621	aagttagaac	cgagaccccc	gcttgctggt	gaccccgagt	ttggatcttt	gtcctgcgc
13681	cgcggttctag	agcaaggtag	ggtgcaaatg	gaccaaccag	cctttgccac	ggctgccttc
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13801	gagccgcagg	tcccgcctcg	tgtctcccga	cgccccccag	ttctgagcgc	gaggggtggga
13861	gtttcccag	tgggaaagcc	ccatggcctc	ggtggcctcg	gtggccctgt	ggtgggtcag
13921	gcccgtgcca	actgcgctga	gggcggactg	ccgccacctt	gacacctggg	agatggcagg
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14101	attccacctt	ggcagccttt	gtggattttc	tgactccgta	aatgaagtta	catctagggc
14161	gcctcatttc	tgcccctttg	gtttaaatagc	taatgaaaaa	aaaaaaaaaa	aagctttgcc
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14401	tccttctttt	ttttttgaga	tggagtcttg	ctctgttgcc	aggaggcttg	agtgcagagg
14461	gcaatatcag	ctcactgcaa	cctccatctt	ccgggttcaa	gcgattctcc	tgttccagcc
14521	tccctagtag	ctgggattac	aggtgtgtgc	cacaacacgc	agctaatttt	tgcattttta
14581	ggagagacgg	ggtttcacca	tgttgccag	gctggtctcg	aactcctaac	ctcaagtgat
14641	ctgcccgcct	tggcatccca	aagtgtcagg	attacagacg	tgagccaccg	tgcccagcct
14701	tgtcctacta	cttttctgcc	ctcaccactt	ttccttggca	ggcagagctt	gggtccctgc
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14821	ccctctgtaa	agcgtagctt	cactgggaaa	aagcactcta	ctgtctgaac	aattcataaa
14881	tgaatttttg	gaatatacaa	gtcacagat	taaaagcaga	ccatcctgtg	ttcttccagc
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15241	agaagggact	tggcttgtcc	aggagctgat	ggttataaat	aatgagtctg	ttttgaaatc
15301	acatctctct	aacctgggct	gcgctggggc	tttcatgggc	cgttggccct	ctggccttca
15361	cgggcccccgt	cttccataaa	aaaaataata	acaattggcc	cggcgcagtg	gtgaaagcgc
15421	gtctctacaa	aagatacaaa	aaattagcca	ggcatcgtgg	agcacgcctg	taatcccaga
15481	ctcggggag	ctgaggcagg	agaattgctt	ggaccgggaa	ggcagagggt	gcgggtgacc



# FIGURE 3 (continued)

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15541 gagatcttgc cattgcactc cagcctcaaa aaaaaaaaaa ttaataaaaa ttatatattta
15601 caactgcatt ggtataaata caagtatagt ccagactgga ttacaattaa ttttaaaaaac
15661 aaaacatttt agggctggct catgtctgtc tgtaatccca gagctttggg aggctggggc
15721 agggaggactg cttgagacca ggagtttgag actagcctgc acaacatagt gagaccctat
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15901 tcatgccatc gtattccagc ctgggtgaca gaggtagaca ctgttaacaa caacaacaaa
15961 aaaattaatt aaaataagtt ttaaaaaatt gcaacatttt cctcaaccct aaatgttcat
16021 ttttttcttc tgattttcat ggaaatggaa acatttttgt ttgtaagcat tgggagccct
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17041 gttctgctct gagaacacag agggcccaag aacagccggt gtcccagggc tgcccagtga
17101 ggagggaaga gcgagagagt attcttgcgt tcaagactgg gaaatgaggg ccacgattca
17161 aagccttgct tcctaggagg aaatctcacc caatgtccag gtttgcaaat gcagcagaca
17221 catttgctgg tgggtcagat tctgtccaga gataccagaa tgtctatccc tgtaacccc
17281 cacctctggc atgggacagc ccttccctgc acacaaatgg gttatcaatt atgtccaatg
17341 aatggcctca cgagagtcct gttgcggaag ggatcttccg cttatctcct gtaaagcaca
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18541 cccctcgctc tgcgggcctc tccctgccct tgtactccac gaggtgtgag gaagttgccg
18601 ggtcaccacg cagagggaga ggtgatgtcc cctctgttct tcctaatttg tagctaatac

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# FIGURE 3 (continued)

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18781 tagactcggg gtattagaga cccaaagata cccaaggagg agtgagagcg tccctgcctt
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18901 gatctgccac cgcggtgcct gaggagtggg ggaggggtg tgggcccaca gcagggagcc
18961 aggctgggcc atgtccttgg attctgtgag ccagggcgtc tcctctagag ggcctagcag
19021 gaacagtggg ggctgcagat ggaaacgggc aggatcatgc catgcagtgt gcatttcact
19081 ggcactcggg ggcacttacg caggggacag catgatgttg ggagctggct ttgtccctgg
19141 catgtctgtc acgttgaaga gggagaagct gcaggccctg acttgggtgg ggcagtgagg
19201 atgctcagga ggggaagttag gggaggggtg ccagcatgcg gcggcctggg cagccttctg
19261 tggaggagct gaggtgtcac ctgggcccgg aagaagggca gccctgctag ctagtgggga
19321 gggcatgaga gaacttggcg acgatgggag agaaggtgac ttgggacgag ctgggtttga
19381 agcgtctgtg ggatgtccag gtatagatga ttagtgaacc gtcagaaatg gggcttgaat
19441 ttgggtgggc ggggacagaa ctgatacccg ttaggtgac agataaggac agaggcagga
19501 gttccaaaaa taggatttat tgttggctgg ggcttctgga atcccgatt cccgtccacc
19561 ctgggaatgt ggattggagc tatgtttctg ggagatgatt tgatggaatg tgtcagaagt
19621 ctaaaacaga acctagccct tgtttcagga ttccctgcag agaagtttgc agatgaccac
19681 atcctgttgt ttatttgggt gaaaactgaa atcgaaagct agctaaatgc tgaacaatgg
19741 gaactagtgt gctaaaaaat ggccgtgcaa tgcaagagtg tgaggttacg aaaatgatga
19801 tgtgggcgcg tatccattga cacaaacatc catgtgtgct acgccctcag ttaaaaagca
19861 ggttagaaaa tggataaaat gatcctgctt ctataaaagg atgcatatgt gttttaggaa
19921 gaaggtgtgt gaggatatag atcaaattct gatggcctgt cattttacct tttttgctga
19981 tccatattct actgcagtgc gtgtggatta ttagcacaca cacacacctt ttttttttta
20041 attaaaaaaa attttttttg agacagagtc tcattctgtc acccaggctg gaatgcagtg
20101 gtgcgatctt ggcccactgc aaactctgcc tcctgagctc aagggtattct agtgccctcag
20161 cctcccaagt agctgggatt acaggtgtga gccaccatgc cgggctaatt tttatatattt
20221 tagtagagat agggtttcac catgttgttg ctggtcttga actcctggcc tcaggtgatc
20281 cactcgctt ggccctccca ggtgctggga ttataggtgt gagccatgc acccggccca
20341 cacacacacc ccccttttaa ttggtgagtt gccaacagtt gtccgatgtg gcagagagaa
20401 ctggggagca gagaaggagc ccatacactg gagggactga aaaccagctc ctgggcactg
20461 caggggcagag cgtgtgccgg gtgtgaaggg ggtcagtgcc cctgtgctgg ccactgtccc
20521 cctagtcttg atacagttgc tgccaggaga ggctggaccg tggcaagggg ccagtgggga
20581 accggggcgg gatggggggc agcagcagtg ctctgggggtc tgcttgtggt ggccatggtg
20641 gtggcagtgt cagtggcaac tgtgggcat ggcagcactt ttccgtggcg cacaggccgc
20701 tgccgggtga ggggagagcc ccgcttgttc tcctcctgcc gcctctcctc ccacccccag
20761 ctgctgggtg ctctccggcc ggcataaagc tgtgcaggca ctgggcactc ccttgggctc
20821 ttagcggggc cttctcattg ctgcttcgct aggaaccacc cgctctcctt tcctcctgga
20881 gggccacgtg gggcgagcac ctgggacagc cgtgctgagc tctaccggc ccttcgcag
20941 gcctcgtttc tgggggcctt cagttttgga aaactccctg agggccctc tagagtgcgg
21001 gtccgccccg cccctggtgt ggaggggaag tgccctgtcc ctgtgtgctg acaggtccct
21061 gtgtgcagca tggtcggggc acttctactc tgcaggcgcg gccgggaggg gagcggggtg
21121 gggggcgggc gggggcggtg ggggagcggg gctggctctc ctgggtgtgg ggtggggagg
21181 cctcctcctc gccagcatgg agttaaaaac caggatgggg gagggagact tccatttct
21241 cccgagatgt acttcatgac gcgtctggag aaaaggtgtg accagccctt tccttccgt
21301 caaggagcgc gcttgcctgt gtaactcacc tgtaaagccc acccagggaa ggccaggggc
21361 tcatgaaaca gaaaacaaag ccgggcactg ggcccttgag ctactagaa tttggggtat
21421 ctttccttgc accctcaccg catatggaac tcctggcgtc gtgtcccagg tcacgcctgt
21481 ccccggtggg aggtggggc cctccccca gccactccg agacttgaya cctctgcctc
21541 aggacgatgg gtgggaaggg gcttgcgggt aggagagcga gcgtgcttc cagcgggagc
21601 ctcgggggag ggtggcgggg ccgcoctggg aggagccgcg ccgcatctca ggcgcagtct
21661 ctaggggctg tgcgcatecg tgggggggac atgcgcactc caggggggct gctcgcactc
21721 gggggtgctg tgtgcatctc gggggggctg tgcccatcta gcggggtggc tgtgcgcate

```

# FIGURE 3 (continued)

21781	tggagggggc	tgtgcgcaac	ccgggggggg	tgttgcgcg	atctagcagg	ggcggctgtg
21841	cgcatttcgg	ggggggctgt	gcatactctg	ggggaccgtg	cttctctccg	ggggcggtg
21901	tgcgcattct	gaggggtgtg	tacatctcgg	ggggcctgtg	cgcattcttg	ggggctgtgt
21961	gcattccgcg	gggctgtgcg	catctcgggg	tgtgtgcg	tgtcctctg	agctctgctc
22021	tttcttgag	cgtttgcctc	agcatggagg	gcggggccgc	ggcagccacc	cccacagcac
22081	tgccttacta	cgtggccttc	tcccagctgc	tgggcctgac	cttggtggcc	atgaccggcg
22141	cgtggctcgg	gctgtaccga	ggcggcattg	cctgggagag	cgacctgcag	ttcaacgcgc
22201	acccctctg	catggtcata	ggcctgatct	tctgagagg	aatggtgag	tcccatgggc
22261	cgtcctctct	ttcccgggct	tgtgggggtc	cctgagaggc	agtttgcagg	ggtcttgtca
22321	cccctgcgg	ctcttctggt	tggacaaatc	taagattcta	gaaaagacag	agacagaagc
22381	tggttcagag	cctggggaga	tggaaatcaa	acccaggctc	tgaggttgg	gagtggcagc
22441	tcctctccag	cctggtccag	cattttccac	tcgtttccac	acacagcate	caaggcgggc
22501	acttcttgca	gcagagggaa	aggaatgagg	ctccgagcca	ggccctgctg	cagggtgtgt
22561	ttgaattgag	ggaaaaaag	taatcatatg	tgagagtttg	tatgctgctg	tgctgctg
22621	cgcattgtgt	ttgttggctc	tggacttggc	agagctagag	cgcctcccc	tggggcagga
22681	gcaaggcagt	gcttggcctc	cacctgcctc	caggccagg	atccaggaag	cgggatctgc
22741	atccgggtga	cccgtctctc	ctagaggtgg	tctggtgac	agccattcct	gagcagcaga
22801	aagctaagag	gcattcctca	cgtgacctgg	ccttgccac	ctctcttgg	cgcgggagat
22861	caggctggga	tcacaagggt	ctgcttggga	gccaggcgcc	tgcttgcag	gagtaggacc
22921	atctgcccag	gcttaggtgg	gggctgtgt	gaggagccac	gtggctaaca	ggtgaactca
22981	gaggctgctt	gttgctcag	tgtgaccaac	agtggacctc	aaacacagcc	tggaaattgc
23041	aggacacctg	acaagaaggt	gggtggagg	gggcgtctgc	tgggcccggc	agctccttta
23101	ggtggggacg	agggcagagg	cgtgccttc	actgcctgct	ctggtggtgg	ggactgtggt
23161	gcagcctccg	gccctgccct	ctttgtgcac	agctggggga	ggttggagg	tgggggagg
23221	gtgttaaggt	gcacacagcc	ctaggtgccc	tcagagaagg	ccaggagctg	cccagggtcc
23281	ccagggaacc	tggttttctc	ctccggttcc	tgagctagg	ctcctgttac	aagccgtcag
23341	ctcacatcac	ctctccacca	aggtgcctcc	ttgctgctgg	ggcaggaggc	ctcacgcaca
23401	ggcggtatga	ctcacgttcc	ctctctcacc	tcccacagcc	ctgctggttt	accgtgtctt
23461	caggaaacga	gctaaacgca	ccaccaagg	cctgcacggg	ctgctgcaca	tcttgcgct
23521	cgtcatcgcc	ctgggttgg	agttcccggg	cgcggccttc	cccgccacct	gcctgcctct
23581	tcaggttatg	caaacagccg	cttcacctgc	tctgttccct	cccagagct	gtgatgggccc
23641	cgcctccacc	ccaaacatcc	cctgcagggc	cactaggtgc	tggcagccct	cgagctggga
23701	ctaaagccca	gaagtcccg	tagctgggtc	ccctgggtca	tcttacacct	tcttttcca
23761	catccaaccc	tgtcctcata	tgacctgtct	ctggcccagg	cttgggtggc	gtgttcgact
23821	accacaggaa	gaagggtac	gctgacctgt	acagcctaca	cagctgggtg	gggatccttg
23881	tctttgtcct	gtactttgtg	caggtgagtc	cttccaacac	cccgggcctg	gggccacctt
23941	ccagggaggt	gggaggagga	ggggagctgg	gctgaaatgt	acctcatgga	agggcctgat
24001	ttctgggggt	tgtgcagggt	agagagctgc	cttcccaggc	ctgtgcgggt	gcaaagctag
24061	gattggcggc	caagggtgcc	cagctcccag	gcgccccatg	gctgactcag	cacttttggc
24121	cacaagccca	gctttctgag	tgtgccaaag	cctcaagcgt	tgggggaccg	gtcccttgtc
24181	cctaagcgct	tagtgctcct	cccaccactg	tgtgaggag	gaaggaaacc	aggcagggtc
24241	gaggggctca	cagtcgccac	gtgggcacgt	gggtgtgggc	ctggccgacc	tgggtgctg
24301	gggtgtccgg	ccgcctgtgc	ccggaaccgt	ctccttcca	atcctagtgg	ctgggtgggt
24361	tcagcttctt	cctgttcccc	ggagcttcat	tctcctgctg	gagcgctacc	gcccacagca
24421	catcttcttt	ggtgttacca	tcttctcct	ttccgtgggc	accgccctgc	tgggcctgaa
24481	ggaggcactg	ctgttcaacc	tgggtgaggt	gtcctgggtg	ggagagggca	gggcctgggc
24541	cacccttgca	cagacctcac	cctgccttca	gcttcccag	ctgtggcttc	ctgagccgcc
24601	tctcgtggcg	tcacaactgg	tggctgtagt	tatgcttgc	aagatttggg	tgttggggc
24661	ttggctttgg	ttagctttct	tgattttacc	ctttcaaaga	aacttctggg	ctatgggac
24721	cctattttatt	cccaccacgc	agcaggatct	gcaggacaac	tgcttagagc	tagaatattg
24781	atctaggttt	ttacattgcc	catctctttt	tgtctgtgag	ccatagctgg	agattgctgg
24841	ttgggggcgg	ggggatggtt	gttctcttca	ggcagggcag	ggaggcagg	gctggtgctg

# FIGURE 3 (continued)

24901 gaatcccat ggcatttta aggccagga taaaagggc atttggccta atttgaccc  
 24961 cttgggcagc ttctcccttc ctctcaccct tgcaggggca agtatagcgc atttgagccc  
 25021 gaggggtgtcc tggccaacgt gctgggcctg ctgctggcct gcttcgggtgg ggcggtgtctc  
 25081 tacatcttga cccgggcccga ctggaagcgg ccttcccagg cggaagagca ggccctctcc  
 25141 atggacttca agacgctgac ggagggagat agccccggct cccagtgatg cggccggccg  
 25201 gccctggggg ttccgggggt gtcttcttgc ctgcccctgc tgaggcgtct tcaggactgc  
 25261 aggcctccgga gagtggctct ggcagcaggc gggcgcggtg gtgcagctgc atctgtttga  
 25321 gtgctgcttt ctggggctag gtctccgctt cctctgcttc tctttctcc gctgctatag  
 25381 accagttcat tgtgtgtggc tcccggtgtct ctgttgcccc cttcagtgcg gaaggctttg  
 25441 ggtaggactt cgggtgttcg gtccctggctg cagagcacag atctttaaag aagcgagaga  
 25501 ggaggcccca ccctcctggc agcagatgcc tggggcaagg ccaggggaaa ctgggggggc  
 25561 ctccaggaca ggccctggaa ggccacgatg gctgctgaat tcaaacaagg agtccctcca  
 25621 gcctgaataa cacgtggcac aaatgggccc ggcccttggc agaggagcaa gtgatgat  
 25681 gtgtaaagta tgttgggtgt gaaagcaagg tccccagga gaggggaggg actggccctt  
 25741 gggaaagctct gagatgaggc tgtggcccag ctgtagtctt gacctctctc tctttaacc  
 25801 ctttagccct aggatggctt tgggtgggaga ggggatagaa gcccatgact tcagacagac  
 25861 tttctcttgg cagatgcagg cgggcctcct cccaggctgc tccagacatg ggggttgggg  
 25921 atggggggca ccttgcagcc ccttctctgt ggggctccct cctttagtga ccccccttgc  
 25981 ggctcagctc tggtttctct tcccaggctc acccaggctc tgcctcaggct gggaggcaga  
 26041 gggcacaaac cttataattt tttaaatgaa aaaccgctgc tgcctggctgt ggctagagcc  
 26101 ccctggggct gctggagctg ctgcctctgt tctggaggac gaggcctctc cttatctgct  
 26161 gcccatcttt ccaggaaagt aggatggagt cagaacaact acagtcatcc cccgtgggtg  
 26221 ctgcacatca ctccagcccc ataaagagtg tcatgttagc tgagtcaaca tttggcttgc  
 26281 gcctggaaat agtgtgatta gaacactgat cgtgtgagag gccaggagat caagaccatc  
 26341 ctgactaaca aacacagtga aaccccgctt ctactaaaaa taaaaaaa ttagccaggc  
 26401 gtgggtgttg gcgctgtag tcccagctac ttgggaggct gaggcaggag aatgggtgtga  
 26461 acccgggaga tggcgcttgc agtgagctga gattgcactc cagcctgggc gacaggctca  
 26521 aaaaagaaaa aaaaaaagac accgatcatg tgcttcttgg atctggtgac tgttctctcc  
 26581 ctgttttctt ttcttttggg gtgtttgagg agcatggctt agcttgagac acacacagac  
 26641 actgtgtact tcagtgaagg gcttaataata cagtttccaa acctgacgac tcttcttctt  
 26701 gtaatggctg cccttttctt acctgaggcc gtcttagaga aagggggccag tctctcttaa  
 26761 tgctcagatt tcccatagtt ggcttttctt gtgtctctct cctcaggcag tgtcatttct  
 26821 gggagcagggt ggttgtagtc caggccctct cccagcaggg tctgcccagg ctccctcgag  
 26881 cccctttccc cgctctctct cagcctgtcc ggatgacagt gttcgcttcc tgttttagact  
 26941 gtacactctt caggggtagg ggtgcctgca gttcttcaat cagctggcac acacttgtat  
 27001 agtgaaatgt ttacatgtgg gaaaactccg ccttagacaa actaccaaag tacaatcgtg  
 27061 tctctctcta gccggaatgc tacagagaga aatggaacct tagatttgca aaaaagtct  
 27121 gtaaaactgg ctgtttgcca aagtgaacac tggatgacta aggagctgaa gaaggccccc  
 27181 agaagcggat ttgtgggtgg ttattttatt ttgctgtgg ccaatcttct gtgaaataga  
 27241 atgtgctgtt ggtgcaacag atgattcaat aaatgtctac agcagacctc tcgctgttta  
 27301 tcttccctta ctgtggtaat aaaaggagcc ggagctttta gcagccagac acatgacgtt  
 27361 agctctaggc ctgagagaaa ttgaatatcc gcaggctggg cacagaagggt aaagcgatta  
 27421 gtgatattga tcatggccta ggggctgaaa agggccagcg gttgtccagt ctgacccag  
 27481 cagaggcagt gttgtttcca catggttaga taagcccttt cctctcagcc tgagagggtg  
 27541 gcctggatgg tggagctgca agagcctgat aagagccttg gcaaggaagg tccccagtg  
 27601 ttaaatggac ccctttccct ttgaaatcag tctttttgat ccttaagaag aggagcaaag  
 27661 cttttggaac gagctgagat tccactttag atccacgtac gtggctcagg cagaagggtga  
 27721 gtttttggca aatttgggtg ggatcgctact gtgcgctttg tgccttgtca cttaaagcag  
 27781 tggccgcca cctttttggc agcaggaaca ggttttggg aagacaattt tccacagac  
 27841 cagggtcggg ggtgggggat agttttggga tgattcaagc acgttacatt tattatgat  
 27901 ttttatatta ttacattgta acatataatg aaataattat acaacttacc ataattgaga  
 27961 atcaatggga gccctgagct tgttttctct aaactagaca gtctcatctg ggggtgatgg

# FIGURE 3 (continued)

28021	gagacagtga	cagatcattc	gattctccta	aggagcatgc	aacctagatc	cctcgcatgc
28081	gtagtccata	attaataggg	tctgcactcc	tatgagaatc	taatgctgca	gctgatctga
28141	caggaggcgg	agctcaggtg	gtcatgctca	cccgtgctg	ctcacctcct	actgtgcagc
28201	caggttctaa	cagccacaga	cccatactgg	tctgtggccc	tggggctggg	gacctctgac
28261	ttactttaaag	caatttaaaa	actcaccaga	gctcactatt	taaagggacc	caacagcaaa
28321	tcctctaata	aggtaacagg	agtcacctgct	tccccgcgtt	ggtctcaact	ttgtcttctg
28381	cattgtagct	ggtctctaac	gtgtaggagc	cagaacggag	aggtctttcc	ttagggcacc
28441	tgtagagtcc	ctectgaatc	aaggettcca	tgtggacctt	tattttttatt	ttattttttt
28501	gagacggagt	ttegtctctg	ttgcccaggc	tggagtgcaa	tggcgcaatc	tcagctcact
28561	gcqacctccg	cctcctgggt	tcaagegatt	ctcctgcctc	agcctcctga	gtagctggga
28621	ttacaggcat	gogccaccac	actcagctaa	ttttgtattt	ttagtagaga	tgatggggtt
28681	tctccatggt	ggtcaggctg	gtcttgaact	ccctacctca	ggtgatccac	ccgccttggc
28741	ctcccaaagt	gctgggatta	cagggtgtgag	ccaccacgcc	cagctgagtg	tggaccttta
28801	tttactgaaa	agcattcaaa	gcacaaggct	tgatacatgt	cacaaactgg	ttcctcagtc
28861	agcatctcat	ttctgttttt	tttttttttt	tttttttttt	tgcaccagcc	tctgaatcct
28921	atgggtctct	gtgaatattg	aagtgatccc	agtcaccaag	ggatgatgcc	tcctctcca
28981	gccagccact	tcacctcttc	ctctacgaat	ctctggctgg	ataatagcag	ggacctcatt
29041	ttcttactgg	ggtcccaatt	cgactctctt	tgactgtggc	atagagttaa	ttctccaaac
29101	aagcacgcgg	catttcccaa	gccatcctcc	tggaccacgc	gcctgcactc	cgtggggcgc
29161	cattcggggt	gcttgcctct	ttcagaccat	cccttctgag	agaggaggca	gcgtgggtga
29221	gggaagagct	gtcagtgtgg	ctgattcaga	ggcctacctg	tgcctctgtg	acctgagca
29281	acttcagctc	tcaggatctg	cttctgcatt	tgttttggag	acagcagtg	cgtctgtcga
29341	ggtgtgagga	atacattagg	gaacacatgt	gaagtcctta	tcacagtgtc	tgggacacaa
29401	tggacctccc	aagaggatgg	cctgttagaa	tggactctga	gcaccttctc	ttctatgtgg
29461	gcctctctct	catcacaggg	ccttcacagc	atgatacctg	ttatcagtg	cccatcttat
29521	tcctgagaat	ggaataaact	agctgccaa	actccaagct	cctccaactt	gtttttaaag
29581	ctgaaagagg	gtgactccat	tccccgcgtg	ttcgccctacc	cattcccagc	cgaccgcagg
29641	ggagtttggc	caccatgtgc	acgtgcgtac	tgtgtctgcc	tgcagttacc	aaaaggtagc
29701	catgagcaga	tatccagggg	aagaaaagtct	gacttactta	gtgcttcgga	ggatctacac
29761	agacttctgc	tgagtttgc	gtttgcttct	actctgagta	gctttttatt	aaggttgagg
29821	gtaaattcct	tttaagaagt	attaatattt	taaatgaatc	actccttttc	ctttcctcca
29881	atgtcccagg	acttcttaaa	aagctggggg	tttggccagg	tgtggtggct	catgcctgta
29941	atcccagcac	tttaagaggc	caaggcggga	ggacagcttg	aggccaggag	ttcaagacca
30001	gcctgggcaa	cataacaaga	ctccatctct	gcaaaaacaa	acaaaagtta	gcagggcgtg
30061	gtggcatgca	ctgtggtccc	aggtacttgg	gaggctgagg	tgggtgggtc	acttgagctc
30121	aggaggttga	ggctgcagtg	agctatgatc	acaccactgc	actccagcct	gggtgacaga
30181	gtgagactcc	atctaaaaac	aaaacaaaac	atctaggtcg	ggcacagtgc	ttatgcctgt
30241	aattccagca	ctttgggagg	ctgnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
30301	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
30361	nnnataaaaa	taaaataaaa	taaaataaat	tattatgcac	aaagtagtag	agtaagagca
30421	gtaatgagtc	caggaagtgt	tgttaccatc	tataaccctt	cttcactctga	cacaaagtag
30481	agatcgctga	aacctagcag	aatgaaaacc	atccctaaag	acaatgaatt	agaaagttct
30541	ggccaggcac	ggtgcctcat	gcctgtaacc	ccagcacttt	ggaaggccaa	ggtgagtggg
30601	tcacttgagg	tcaggagtcc	gagaccaacc	tggccaacgt	ggtgaaacct	catctctact
30661	aaaaatacaa	aaattagctg	ggcatggtgg	cagacacctg	taatccagc	tacttaggag
30721	gctgaggcag	gagaatccct	tgaaccggg	agtgggaggt	tgcatcgagc	caagatgagc
30781	caagatcatg	ccactgcact	ccagcatgga	tgacagagtg	agactctgtc	tcaaaaaaaa
30841	ggtcttttct	ggccagacat	ggtggcccac	acctgtaatc	ccggcacttt	gggaggccga
30901	gtcaggcaga	tcacttgagc	tcaggagtgt	gagaccagcc	tgggcgacat	ggtgaaaacc
30961	tgaatctaca	aaaaatacga	aaaaaattac	ctgggtgtgg	tgggtgcacac	cagtgggtccc
31021	agctacttgg	gaggctgagg	caggaggatc	gcttgaaccc	tggagggttg	ggctacagtg
31081	agctaaaatc	atgccactgc	actccagcct	gggcgacaaa	gtgagacttt	gtctcaaaaa

# FIGURE 3 (continued)

31141	aaaaaaaagt	actttttccaa	aatacttatac	caggccaggg	gcagtggctc	acacttgtaa
31201	tcccagcact	tccggaggcc	aagggtgtgtg	gatcacctga	ggtcaggagt	tcgagaccag
31261	cctggccaac	atggcgaaac	ctggtctcta	ctaaaaatac	aaaaattagc	cgggtgtggt
31321	ggtgtgcacc	tgtaatccca	gctactcagg	aggetgagge	aggagaatca	cttgaacca
31381	ggaggtggat	gttgacagtga	gccaagatcg	tgccactgca	ctccagccag	caacagagt
31441	agactccatc	tcaaaaaaca	aacccaaaaa	acccgaaaat	acttctccgt	atcccactga
31501	aacactagtt	aaggatttct	aaggtaactg	agagctaaat	ggtgatttgc	cactcctttg
31561	gcttggtggg	gctggaaatc	cctttttattc	tcccatgttg	taatgagatg	tctttgctca
31621	ctcttttttt	tctttttctt	taaatctcag	aaggaggccc	caaccctgag	cacaacagca
31681	acctggccaa	tatcttagag	gtgtgtcgca	gcaaacatat	gcccagtcac	acgattgaga
31741	cagcactgaa	aatggagggtg	tgtactgttt	gacatgcttt	ttattgatca	cagcctctac
31801	cgggctcatg	tctggatggc	caacaaacac	actgtaaatt	atcagagggg	ccaagtgcag
31861	tggctcacga	ctataatccc	agcacttttg	gaggctaagg	tgggtggatc	acttgaggcc
31921	aggagttttg	agaccagcct	ggccagcatg	gtgaaactcc	atctctacta	aaaatacaaa
31981	aattagctgg	gcgtgggtggc	atatgcttgt	aatcccagct	actggggagg	ctgaggtgga
32041	ggatcgcttg	aacccaggag	gtagagattg	cggtgagccg	agattgcacc	actgcactcc
32101	agcctgggcg	acagagcgag	actctgtctc	aaaaaaaaaa	aaaaaaatta	tcagagagaa
32161	cggtagcaat	gtagttagcg	ccctcagcct	agagtcttct	gagagctcac	cgctcctggg
32221	cattggttct	aggagcacaa	ctgggagtag	gatgcatagg	cagtatgcag	ggccatacac
32281	tcaagaccgg	gactgctcag	ccaagttgta	gggagatgag	gtattataga	aagaaggggc
32341	agtgtgggag	aaagccctta	cgttaggttg	aggaagtgtt	tgtttttcag	atgtttatgc
32401	cctaaaggag	aaaagccagt	agaaagggag	aggatggggg	tgatagagat	ggtgggaggg
32461	gcaggtatat	agagtccacg	taaggggtaca	cctttctctg	gggcaggtag	ggaggctctg
32521	aggaagtaat	agttatctta	atagctcaaa	attattgagt	gcttcctgca	ggctaagcat
32581	ggataaaaac	tctatgtgtg	ttatctcatc	gaatcctcaa	aaccaccgta	agttagaaact
32641	gaggcacagg	aatgttaggt	gagttgactc	aagtcgcata	gaaaatgaca	gacttgaaac
32701	cagatagtca	gacttttagag	cctgtgctct	aaccgttatg	cttattgcct	tcatgtaggc
32761	catggtgcag	agaaggtggt	ggagacagca	actattttcc	ccacctagtg	gcccttttta
32821	cctttgtgaa	agaggaaggg	agaaagttatg	agttgagaat	tccctggaaag	ttgcaggaca
32881	gggtgcttg	agtggggaat	attgaataca	tggacaaggg	atgagtaggg	gcatggaagg
32941	tccagaagag	attagtcctt	agagctctgg	attaattggt	tcaattttga	gaccatgctg
33001	ttttcagcag	ctcttacgac	aaggcctagg	tgtgtgatat	ttcacagcag	tactcagcag
33061	cccagggtag	ggaccttgag	acttgaccgg	tgggtttctt	acaggatggg	ggtgtaggag
33121	gatgagtctg	agtgggattg	ggtagggact	agatgtggca	tttgggtagg	gatggtagga
33181	agcaaagctg	agagatggct	gatggattgt	tcagggaccg	gagaaacaga	ctccttccaa
33241	gttaggggta	gtacttcctg	ttacctcaaa	agttggttag	aggggtgggga	caaaaaataaa
33301	gattgagagc	tcaggctcca	gcctagagag	cccatcccat	ggagttagtt	ttgcgatact
33361	tgtagtctctg	ggctgacatg	tgggaaggaa	ttgggaaaca	ggaaaatgtg	cttgtgttgt
33421	ttattgcaga	aatccaagga	cacttatttg	ctgtatgagg	gtcgaggccc	tgggtggctct
33481	tctctgctca	tcgaggcatt	atctaacagt	agccacaagt	gccaagcaga	cattagacat
33541	atcctgaata	agaatgggta	agtgtgcgtc	tgggaggagt	ggtaggggac	agagccttta
33601	tgtttccaatt	ctctgcaagg	caagtactgt	tgatctctgc	tagtgtttca	gggttttgtt
33661	ttttgttttt	ttgttttttg	agacggagtc	tcactcttgt	cgcccaggct	ggagtgcaat
33721	ggcatgatct	tggctcactg	caacctctgc	tttctgggtt	caagtgatcc	tctgctcca
33781	gcctcctgag	tagctgggat	taaagatacc	cacagccatg	cccagctaat	ttttgtattt
33841	ttagtagagg	tgacagggtt	tcatcatggt	ggccagactg	gtctcgaact	cctgatctca
33901	ggtgatccac	ctgcctcagc	ctcccaaagt	gctgggagcc	accatgcctg	gccatgtttc
33961	aggtttttaag	cacacttgct	ccttagcaga	atctaataag	ttaattgact	ttcccttaat
34021	gtagtttcta	ctagcaggat	cccaaagact	tgttcatcgg	atgtagaagg	ggatcctttg
34081	cctattatcc	ccatctgtag	ccatataatg	cctaagtctt	aaaatgctcc	accaggactg
34141	gcatcttaat	ggcacaggaa	attatcagct	aagtctgctt	cctcccaact	gcaatcaggg
34201	cagaaaaatcg	agcgtgggga	cattcttggg	ctgttccctt	acccagcagc	agctgcattt

# FIGURE 3 (continued)

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34261 tctccttgag gatgcatct gctccatgtc tgtgtgtact tcatagactg ggtaagaaag
34321 agacagtgat agaattgatga gctttatgga ggctgagctt ctagaggcat ccactcatgc
34381 cagcctgttt ccttcctgtt cagaggagtg atggctgtag gagctcgtca ctcttttgac
34441 aaaaaggggg tgatttgtgt tgaagtggag gacagagaga agaaggctgt gaacctagag
34501 cgtgccctgg agatggcaat cgaagcagga gctgaggatg tcaaggaaac tgaagatgaa
34561 gaagaaagga acgttttttaa agtaagcatg aaaacatggg tgtttgggtg gcttccggga
34621 ggacctgat agatgcctta tgcattgcctc ttggtttctt ccttcattgtg cccagggta
34681 taggtgagac agttcacata ttgtacaaac atttattaag tgaatactga ataggaccng
34741 actctagtga ggactatgag aaagaaagag tcaaaancat tgaaaacgat gtccctgcca
34801 gtgaagagct caaaccagct gatccattcc agtactgaca ttcaggactt tgcaaggctc
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34921 tttattttgtg atgctctctc actgcaccaa gtgaggaaga agctggactc cctgggctg
34981 tgttctgtgt cctgtgcact agagttcact cccaactcaa aggtgcagct ggctgagccc
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36001 aggatcactt gagcccagga gtctaaggct acagtgagct atgattgcac cattgcattc
36061 cagcttgggt gacagagtga gaactctct tttttttttt tttttttttt tttttgaggn
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36661 tggcagccca cctcagcctt ggctttggta ggggtggctg attgggtgca gcttcagcta
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36781 aagaaaaagc ccccttttct caacaaatgt cacaggcctg tgctgacagc tcttagaac
36841 ggcgtctctt gtccacagct ctcttgagg cctaccacag tgtccaactc tgaggagagg
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36961 caagagacca agcaaatcat cgggaatttg gccttagccc taacctgccc aattcctctt
37021 gagggagggt gccccatca ctgcattctc aggagggtaa gcttaaaagc cagctccctg
37081 aaggaggctg aatggaagga gaaaagcatt acaacaccat gggtttccaa gtgttagcca
37141 tttataaata agtacatttg ctttcataca tacagtctct tgtacagatg acaatctgta
37201 tacatggggc aggaaaatgc attcatttga acttttcaca tctatctcac acagctcaca
37261 tgtacagaca ataaaactgc tcaagcaagt acagcaaagg aaaatgtctt tcttatata
37321 caggggtaga tgcctctgtg ggggtgtggg catcccactg cacggcttca caactgtgtg

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# FIGURE 3 (continued)

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37381 gtgttcaata tatcaggaga gagaacaaac atgcattgga taatatactg tacagagaaa
37441 gtccttttaca tctgagtcac agaaaaccta aaggaaaact aagtgcatta aagcttttttc
37501 cagcaagtgt cttgaaagga cagcaaagag gaggaagaat caaaatcata ttagtacaaa
37561 tcactcttta attgtagact gtacatgtct gtactaatta aaatcatctt ggatttggag
37621 gagacagAAC agagacaaag atgctgtgct agatggaaag gaggccacgc ctgaaaaggc
37681 acctgccctg agcctgatga ggaactggcc tcactcagca ggaatcagcc aaaggaaaca
37741 aaaaacaaaa caaaaccaga acaggaagtg taacttacag gattttccaa atcacctgtg
37801 aatgaagtgg agatctggag cggcatctc ttaacttttt ttttcccccc agtaaattgg
37861 tatgcaataa ggcaggtaca ttcaagtact gaattttcca gaattaactc ttgtctggcg
37921 ctggggacca aagggttga gttgagcccc ctctaaccag actttctggt tagcgattag
37981 caaaagaaaa attcagccag caagtgtac aaaaacaaag cagctagggc acttccgttc
38041 cacagagtag gtctacctgg aaaaatgagc gcggcgctgg cctgatctct acgcgtccag
38101 cggcagcctg gcaagtcagc tcagcgtcgg tatcagagtc agcaggaggc aatgagatga
38161 tggggtgag gaaacatgaaa gtaacacttg atttttgggt tccaattatg cgttcatttg
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38641 acagccctcg gtgtggaagc agcagccggc tgcttttga ggtcggtttc ttgagaaatg
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39061 atgtagtgtt caaagagttc gtcttgcaca actggcacag atgcacgaag accccttcca
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39421 taaactacta tacaatatta aggactgaga atacctttct ctaagctgtt ctgtttacaa
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39721 atacaaaatg gtctccattt tgtcatgcca aattctcatg ttacacaggt tttcccttta
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39841 aagtaaccgt gtctcaggag tccctaagaa cattgctgga aaagcacttt aaaatcactg
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40381 atgactttgc ttcttgctag atgaatgatg cacaacgaca ccacctctct tgccttcagt
40441 ttcataattt gtaaaaggca gataataata tccactttgc aaagttaaga gctattatta

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# FIGURE 3 (continued)

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40501 taatatgaaa cactgtaaga gtactcatca gagagcacct cctgtagtag taaatgcttc
40561 acatttttcag ttcagtcccc tactccctca gggtttgctt tgggactaaa aaccactgcc
40621 acataggttaa gcatggaaag aataagctaa acaccaagtg cagagaaaaa gactcaaggg
40681 tcaaagtgga ccacaggctg accagaagca tgccaagagg ctactgtgaa agtaacctgg
40741 atcagcctgg gaactggatt tgggcacctc caagaagagg tgggnagana acagactgca
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40921 ctngggacag tttggcttac tggcatatgt gtgtgcatgt gtgtgtgtgt gtgtgttagt
40981 gggaggggct aaacattgtc ttttctttct tctttttttt tttttttgag atggagtctc
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41101 ccacattcaa gtgattctcc tgcctcagcc tctcaagtag ctgggattac aagtgcctgc
41161 catcacgccc ggctaatttt tgtatttttg gtagagacgg ggtttcacta tgttggccag
41221 gctggtttcg aactcctgcc ctccaggtgat ccgctgcct cgacttccca aagtgcctggg
41281 attacatgca tgagccactg cgcacagcct aagcagtgtc tctgaacaca gaaggctgca
41341 caagaggaaa tgggctctga ttaatgtagg aaagactgca gtctgacatg aggaagaaat
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41461 agaggagacc tggagcagga cttccttaaa gggagatggg ggagccaga acaaatgaag
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41641 ccagactgag gaagtacctg gttgagaaac gtgagggcag gctggggagt ggagaccagg
41701 agtggcaaac tcagagccac ttgggaccag gcagctctga catgcagtgg ccacgagggc
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43501 cttccctccc agttgacagg gccttattca agggccaggg agttgccacc cctcctgctt
43561 agccccaggg ttccatcagc tggggtgatg ggcagggctg acagaggcct cctgcagggtg

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# FIGURE 3 (continued)

43621 cctcagatgg cctatgaggg tgaccttaga gaggcacgag gtcaagactc tgccaagccc  
 43681 accaggggaga cctgctcctg aagtcaaggg tgggagtgag aggacaaggg gaggagctcc  
 43741 cagctctgtc acctgctcgt ttgctgtgtg acctcgggct ggtttgtgac ctctgtgagc  
 43801 ttcagctggt gcttctgtga gctgagcgt ttgaagtgat cacaacgcaa ggtggttcta  
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 44461 catggggagt ctttccccag aaaggaaagt gctcaggccc ccgcacactc cattgcctgg  
 44521 caccaggaag ggagggagggt ttgggagggc ctgcctgggtg gtcagtgttc tgtgattaga  
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 45301 tacaagcaaa gggcatgggt ncaaggagca tggagaaagg gagtttccc attcagactc  
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 46141 agggacagac aggccaaagca ctaacctgga ctttcatgat ctttgtgaca tctctggga  
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 46441 gttaggtag agtgcccgca gtcctggaa tagccgctcc aggtcttctt ccagggtatc  
 46501 cgactcatac ttggagtgcc acaaggcccc catgtctttg tnaacctagg acaggagaga  
 46561 ggactcacca ggagctcacc atctcaccct ttagccatgg cctagctgac aggataccca  
 46621 gacgccttct agggaagcca ctcaacctcg ctgaccgtct gggctcttct tggcaaaacg  
 46681 gggagaatac ctgcccattt cagaaaggca ctgagcaaag tccatgatcc gagctcccca

# FIGURE 3 (continued)

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46741 ccatgcctgc aaggccctgn agtccccctct tatcccacct catccttagc cctgtggcca
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46861 aggcctgctct tctttcacat cttgcttccc gtcttttgcc catctttcag gtcttggata
46921 aatgtcagag tnccttccct gtccacttgt ctgcagcagc ctcttctcat tctctttctc
46981 agcagcctct tccattcccg catcacccca gatggtagtg agagacaggt gtttactgaa
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47101 ctatgtgtcg tcagaacctc cccagcacct agcacctagg tgnctctatg aatatttgga
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47221 gggaaagctc agctttgccc cttecttgcc atcactccaa gctctgtggc atcccatctg
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47641 tgtcatctcc aggnataggcc agaagctcgt tatactgggg ggacaggtgt taccaggggt
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47881 tgtgncctaa aggcctgggg gttccatcca tcacctccg cagctcgtcc ttggacagag
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48781 aacagagcag cagagctggg tgaggccagc tccatattgt gacgtcagag gccagaggt
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49681 gataccacga ctagagaaac tgaccaaata acccccctaat atgatccatt atgggtaaaa
49741 tataattata acatgaggaa agaaagaaaa aaatagtac acttctggtt aagctgatcg
49801 actgagctca caggaaagtc tcccttctct cttcaagcat gtagacagtc cattctcaca

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# FIGURE 3 (continued)

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49861 ttgctataga gaactacctg agactgggta atttataaag aaaagagggt tagttggctc
49921 tacagttcca caggctgtac aggaagcacg gctggggaag cctcaggaaa cttacaatca
49981 tgggtggaagg cgaaagggaa gcaggcacat cttcacatgg tggcaggaga gagagagaag
50041 ggggagggcgc tacacacttt taaacaacca gatcctgaga actcagtcac tatcacgaga
50101 acgggcaaagg agaagtctgc ctccatgatt caacacgccc acctctcttc taacacaggg
50161 gaggtcaggg tgcattccatc cagagagctg cagcattgggt gtggggggat agctgatccc
50221 gatggaaatg gcgtctctgc caagctggga gcccctgcaa gcgtcagggt catgcatggg
50281 attgtgcagg ccattccaac ccaactgaag atggctgata ggtacagttt accaagtata
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50461 ggttaagtact gtgatcaacg ctcccatttt acagatgagg aaagagaggt acagaacggt
50521 tgaggaattt gctcatagtc acacagccag cagatgggtg aagtgggact caaattcata
50581 tgggttgggtc cagagcttgt gctaaactgc agacacaatg aatgaagcag actgcaatgg
50641 aggaaggaca agtagcagag caatccaaaa gggacttaaa atgcaggctc ttatgccatg
50701 tataaaaaatt agctcaaaaa tggatcacag cttattttct tttttcaatt taaaagagta
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51481 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gaaagaatta ccccgctca ttcttgtcta
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52861 ttgactgca tctgttggag atacaaagcg agcagttctt ggtcagaacc ctctctgct
52921 tttcattgtg tttgataatg gttactgggt ccttctctca agggtagcaa ggccaagctg

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# FIGURE 3 (continued)

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53041	tcagtggtag	aaggggctgg	tctgctgggc	agggtttaca	tccactgagt	tctaagattc
53101	ctttctgat	ctgcacctac	gcttggcttg	tatgggtgaa	ttgttcagct	ggaactcaga
53161	aacaacaact	tgaaaaaaaaa	ataataatta	gaacatattt	gcataagata	gctatttact
53221	ctggaaacca	acaacttttg	agatttccct	tgcctgtggt	acgcccagct	cctgtcatcc
53281	ttccttaggt	cctgcagtac	agtcttcccc	tgaatgccac	cggggaccca	gggggactcc
53341	acccccctaa	gcaagcacac	acatactcac	agttgatgag	ttgctggtct	ttgagtccca
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53461	tacagtctca	ggattttagaa	agtctgtaag	ccatccatgc	tccagaaagc	accgatctgt
53521	tgtagttgca	aaaacaactc	tgtaatttgt	tgaggttctc	aaactgacag	ccagcgagac
53581	tgggtgggag	gccctggatc	tgttctccct	gactgcggga	ggagcagcca	ctaggacttt
53641	agcaggaagc	ccacatggag	gctccgcagg	ctgtggccca	gctggtgatg	gcccttttgc
53701	tcctggcagc	ctgaggcaca	gctgctgtga	ttgtctcat	ctgttctgac	tgaaggatgg
53761	aggtgctgaa	taaattaggc	ctcaggcctc	taccaccaga	gagctggaga	atgggtccac
53821	gtcattcaag	gacctgaatt	ttttatgctc	aggagcattg	gaatcctctt	cttccaggga
53881	ggaattagcc	tgcaagggtta	ggacttgaag	agggaaaggt	tttaataact	gggcgaggat
53941	gggtgtggtg	gtcacacact	gtaatcccag	cattttgngg	aggctgaggt	ggccagatcc
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54061	tacaaaaaaa	aattagccgg	gggtgtgtgg	gggtacctgt	agtcctagct	actcgggagg
54121	ctgaggcagg	agaatggcgt	gaacctggga	ggtggagctt	gcagtgagcc	aagatcnggc
54181	cactgcactc	cagcctgggc	gacaggagca	agctccgtct	caaaaaataa	aaaaaaaaaa
54241	aaaaataggt	gaaaattcct	tataaatcca	ggattggctc	tgagagaact	ggctaagatt
54301	caggaagaaa	caaaaaattc	agaatcctac	aaggttttga	tgacaattag	ggccaaaatt
54361	ttaggaggag	atgtaggatg	caggagaaaa	ttaaagtgtt	ttctttatat	cagaggagga
54421	aatagtagag	gtcagtgaag	gtctggggta	gggaaacatt	cagactgtcc	attgcatggc
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54841	gggcagccca	gtactgtccc	tctgccttcc	ccactttgag	aatatggcag	cccccttcat
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54961	actgtgtgta	ctccaggacg	aagaagggaag	atcatgcttg	atacttagat	tggttttccc
55021	aggggaagag	gcggagcaga	gcaaagtcac	tgtgaaccct	gggccaggcc	ctggctgggc
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55681	ctgtgtcctt	tagcctagta	tgtctgaact	tccattcttg	ttatatattt	aaactttccc
55741	tctatattat	aggttttttg	gcacccacgg	tcaggtgtag	aggaagctgc	cccttgcaga
55801	actgtactgt	aatatttttc	ttttataaat	attttcacag	gactgattgt	acacagggct
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55981	gtaaattaaa	cctaattttc	accctttcat	tctgtttcag	cctcctgtat	aagaagtacc
56041	gtattttctg	cccatcatac	tttgaataaa	aacttgaaca	tgtatagatt	gactgaattt

# FIGURE 3 (continued)

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56161	ggcagtggcc	cagcccgagc	cggncagtn	tactcatcac	cttttatatc	ctatttagtc
56221	attcacttgt	taattcagt	gagcacctcc	tctatgccag	gggacatggc	cctcaagttg
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56341	gatcccagct	gaggcatggg	ggtggctgag	gtgggaggat	cacttgaggc	caggagtcca
56401	agaccagcct	tggcaacata	gcaagaccct	gtctcaatca	atcagtcatt	tttattaaaa
56461	aaaaaaaaat	ttcttttagc	cagactaaga	tctaagacaa	atcttttttt	ttgcatcttc
56521	tttttctttt	tttgagacgg	ggtctcgtc	tgtcaccag	gctggagtgc	aatggcgcca
56581	tctcggctca	ctgcaacctc	cacctcccg	ttcaagctat	tctcctgcct	cagcctcctg
56641	agtagctgag	attacaggca	tgtgccacaa	caccgactg	atcttttgtat	tgtagtaaaa
56701	gacgggggtt	caccgtgttg	gtcaggttg	tctcgaactc	ctgaccttgt	gatacgctg
56761	cctcagcttc	ccaaagtgtt	gggatggtag	cgagctcgaa	ttcgtaatcg	tggtcatagc
56821	tgtttcctgt	gtgaaattgt	tatccgctca	caattccaca	ccacatacga	accggaagca
56881	taagtgtng	agcctggggt	gcctaataag	tgagctaact	cacattaatt	gcgttgctct
56941	cactgnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
57001	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnntatc	tagtcaaaaa
57061	caactggcat	gcagcagtga	tacctactcc	ctcttatgat	ggccaaaaag	aatggcattt
57121	tgaactgttg	catttttaggt	gttttgccca	tagggatatag	gccnaaatc	ttntgncct
57181	ggaaaactga	gagaccctgg	ggagaagcgg	catcagcggc	atatttgtaa	agctacagga
57241	cctgctcatt	cgcttgagca	ggtgagtgcg	ggtgggtgtg	ggcgttccaa	atgagcagga
57301	gcactttcct	gacagacact	gagaaattct	tcaaaatgca	gtggctcctc	agcgagaggc
57361	ggtttttaagg	agtaagatgt	aaagatgcca	gcagtgtctga	gacctggcca	aaaagcaatc
57421	tgagaggcca	ctgggctcct	ggctagaggt	ccccgctaga	gctacacatt	tcctcttctc
57481	gatgtgagag	agaggggtat	agagatggag	agaggacgct	gatgcctacc	ctggtctagc
57541	tgagaaggcg	tcgctgatgc	ccaccccggt	ctagctgaga	aagcagtcct	agcctatcag
57601	ggagtgtgga	aagagactgg	ggcttgagtt	agtcttgcta	tttgctttcc	tagccaccaga
57661	gacaagtctt	gcctgttttt	agggttgagg	gtggagaggt	ccgtctatct	cgcagaatct
57721	aaattagtaa	agaaatgctt	ctgatatcag	gttcattgctc	cctgtgtctt	aatgatecct
57781	tcaaaggcca	cttacttact	tacttactta	ccagacacat	gggactggtc	gcagccagat
57841	ttttatttcag	gaaactgccc	ttcctgcagc	ccttccctaa	cagagcagaa	tgattcctaa
57901	caacagagaa	cgaatgctcc	tttgtttcgt	ttcagttgct	tagttgagtt	gtttagtgtg
57961	aagagctgat	gtacagccag	tgccaggcct	gtgccgaggc	tttggttcca	atgttcttgc
58021	tatccactca	atagtggcct	cgctcactca	aaggctcagcc	taccaaatga	ccacgagacc
58081	tagaagatgt	gtcttctaga	caagcttcaa	gatcagaagc	ttgctgtcta	tctcatgccc
58141	ccaccagggg	ctgcaaaaaca	gggctgaaag	gggtctttct	tcacctgaa	acagtttttg
58201	ctgctgtctga	ctttaaaata	tcacactctc	ataaacactc	ctagaaaaag	aaaagaaaca
58261	gttctctgtaa	taatagataa	tcaaactata	gatctcaaaa	tggaaagtaga	caacaacggg
58321	catgaccctg	ggtggaaata	ttgggactca	gtctcatggt	cccaagagat	tccaatctgc
58381	ttctgaaaga	aacaatttct	gtatgacacc	atctgggttt	acaggaagag	ggccactaga
58441	acaaaatctg	gctgtagggt	aagatccaac	taacgggatt	gtcacaccag	ccagccttcg
58501	gttagagttt	ccttttagtg	gagtatgaca	ctcagtgatg	tatcaggatc	taaaaagtag
58561	atgtctccag	aacagacttc	ctatagcctt	tactgagaa	tccagaacaa	tcttttttgt
58621	ttttctatgt	attcattccc	tccccaccc	tggaaaagca	gcagctttta	gtggtttaatt
58681	gtcggctaaa	aatctagaga	ataactctca	gtgaattctc	ttaatagcca	caattctcat
58741	ctaatttctt	tggtgactg	caatatttaa	agggtgggt	gtttttgaca	tggtctctaca
58801	atgcctcttg	gaaaatcaat	gtagtacat	tttacataat	tatattgggg	ttttcttcca
58861	attagcact	taattcttct	ctctctgatc	cttttacccc	ctaggaagac	cagcaataat
58921	cctaatagcac	actgcagacc	tgggtggctgc	agggcgctgg	cggtctgggg	aggggccaca
58981	gcatagagaat	gcgctgcggc	tggctgtgtg	ggtgacactg	gctaaggatg	caaaggcaaa
59041	ggggcatcgc	actctttcta	aagtttctag	aagaaaacga	acaagaacac	cttatttttt
59101	aaaaaaggaa	aaagacaatt	acacaacaag	aacatcagtg	aaagcgattg	tctcctggaa
59161	aaagctgacc	agtgtgtctg	atctccctgg	gttaaagcac	acagcacgaa	aatctcctcg

# FIGURE 3 (continued)

59221	ttggcatctg	aagagaggga	gagagcatgt	ggctgggcac	agacaagaga	aactgaagtc
59281	ctggctcccg	ggaggccgct	tcccagtcgg	ctgcatgcaa	aggatttcag	catgtgggct
59341	gccacctctg	aacaccacac	agaaactaca	tgagaaatta	agccagagaa	ctacctcgaa
59401	tgtggaaacc	aagcctgaaa	atgtgcagtg	aaaacatatg	ggtctcactc	caacaaaacg
59461	tcttttaaac	attagactcc	acgaacggtc	tctttgggtt	gataggggat	gtctgccctt
59521	gccgagagtc	tcgggacagc	tgccctgtaca	ggttgtcctg	gtatgcctga	gccacaggta
59581	gagtccgagc	taccttcacg	tcgggatatag	aggaggcctg	gctgactcgc	tccaagaggt
59641	ctccacgaga	cccgttagcc	agcatcccat	gggggctgta	ataatcgtcc	tccagcaaat
59701	ggccattctg	tgcatgtgtg	gtttttgttat	aaaaggcaat	gttgctgatg	gatgatgggtg
59761	gactgaagga	ctcaggctga	ggcaggttgc	cnggagacgt	gggactgagg	acggtgtcca
59821	cagatgacac	tgcccagggtc	cgattctgct	gggtggagggtg	gggggtactgc	tgagtccgtg
59881	ctgtttttatc	tatgatcccc	atgaatgggtg	tggtcctgga	tcgggtgggc	tacttgggggt
59941	aacctccttg	agnttgnag	acactggcga	cagctcngtc	acatgacctc	tcatatgcag
60001	gtttcagttg	gatctccatt	tgctggatgg	aagaagatgg	ccggaagggtc	ggagttagggt
60061	tggagggtgga	ggagatacta	ttgctagatg	gagagaagcg	aaggcctaca	ctttgggaat
60121	gcagcaacgg	cctgggagtt	ggcgggtgcg	gtttgatttc	gttaggggtg	acactgatag
60181	gtcttctgat	taaatgcgac	acatcagggg	aacctagttg	gctggaggag	cgctccagat
60241	ctagttttga	gtgacagact	gggtaatatg	atgctgactg	gctgcgtccg	atctgtggtg
60301	tctggctgta	tctcaegcca	cctcggtatg	ctgaggaagg	tcgctgtgga	agatcctctt
60361	tggtcaatcc	tccatgctga	cagatggcgc	ctgcactcag	gctggcttgg	acatgctgca
60421	ccggccttcc	atcccctacg	attcccccaa	ttgacccttg	ataaaccac	cggctctggc
60481	tgactcctat	gtctccttgt	gaagactgggt	atttactggc	cattgaatgg	gctacttggc
60541	cataggctcc	tgtggggatg	acggtgcttg	aatggacggc	tgggctgggc	tggttacttc
60601	tcacaatctg	ggccttggea	ggctgtagcc	tgagcccttg	ctggggaact	gccacaggga
60661	gctgaggcat	ctggtagggc	cgctgggcca	ttttnggata	atggagattt	gggtctgcca
60721	ggaagctgac	tgacgcttgt	ttcctgctga	tagcgacagg	gtgaaccaga	ctgggatcta
60781	tagacactca	tactttcagc	tggagggctg	gcccataact	gagggcctct	cgggagagg
60841	gaagggggag	ggcttgggta	ttctttgccc	tgctctccca	caggaggggg	gctgaaacgg
60901	taagatcctc	ctgatgagc	cggggaagtg	tgtggtgggc	taggcctgta	atgtgagttc
60961	tgatgagttg	gagaaagggc	aggtgaggtg	gactgatagg	tctgtctagt	gggagagcct
61021	acagaactac	tggaccggaa	gtcaaaaacc	tgatgagagc	caagaggtga	gctggagatg
61081	taggctgagt	cccgatgcgg	gggagaggag	ggtgggctct	ggatgaccgg	gagcccctgg
61141	ctgggcccgg	cctctgtctg	gaggccanat	ggaaacattt	tcaancatcc	tgtntccagg
61201	tactcctcct	cgaatatatc	ctgtacagag	tatatgtctt	catgctgtgg	ctcagggtct
61261	gcttcttccg	gcaactgctg	ctgaggctgc	ggtggcggcg	gtggctgctg	tggtgctgc
61321	atctgtctac	actcttcttc	cactctcagc	agaagtctct	ggatctcacg	gttgttggga
61381	cacagcttga	tggcctcggt	caggctcctc	aaggctgctg	cgaactgtct	gcttgacaaa
61441	atgtgaacac	aggaactgga	gttattctga	atccagagaa	atcaccaaga	gctgagaaca
61501	tggtcactat	ctcagagagc	tgtggtggcg	tctgtgggag	tctggggtat	ttcggtttag
61561	ttggatttat	agggaaaggaa	acaggaagac	tcattctgga	agagtccgaa	tgattcccta
61621	accatttcgg	cctccatctt	ccttctggcc	tctctgggaa	tagtggagaa	atgccccatt
61681	ttgtcagtc	angccaggcc	cttcgggaag	ttgttttgggt	gccccaacac	acaccaggca
61741	gtatgagagt	tgggtgggggt	tgatcatctt	agggctactg	tcaagtagct	taggaacaaa
61801	aaaaactaca	tatttaaaaa	tcttctgtat	ccagcagaaa	tttttcttta	tattctcaat
61861	atttttagctc	caaatttcag	gcctgttcta	ctctaggcaa	gaaccctgtc	ctctgccctt
61921	tctaaccctc	atctctcaga	attgctgtgt	ctccatttgc	tctatcaaag	tggggcaggc
61981	attaggcttg	ctgactaggt	cactcggggc	tggagctgag	ctgactccaa	ggagactcta
62041	atttacaaat	gaagaaatga	actgtcagag	acattcccat	cttctctact	aatatcacct
62101	gacaggggca	actgaccttg	tgaaaaagga	actnaccag	aggnaangga	gaatttcagt
62161	cagatttctg	tgaggacttc	gttgccccag	ctaggttaaga	gtgcgatcac	tgccaccacc
62221	atcactagcc	tcaagctggg	tgtgattttc	gggaccatgt	gcccctggcc	atagcagtga
62281	acctgaagca	gttctttccc	atgcagctgg	ggaggaggag	ggcaggaggc	ataagagaca



# FIGURE 3 (continued)

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62341 gtgacaagtt acacaaagat cactgatggc aggttctagg ttattctggg agcttttctg
62401 cccagtggcc aaactaaagc agatgggcac aaggaatgtg gaatgggtgt ctcttagagg
62461 gtccctccca tcctggcagc aaggacctct tgactctgtg tgtgtgtggt gggtagtggt
62521 ttaggtggaa ggggggtctga tgccaccaga cttgaggaga gcccagagg gaagactaac
62581 taatccggga ttccctcaaac gcctatggga gaaggaagag gaacctgtga tgttaagtga
62641 accatccctac ttccctctca aagcgggggt ggggtgctct gcttaagtga tttctttaag
62701 tcgccgttgt ctctttgtgc tagctgctct gggggttgaa aaatgcctga gatacggcag
62761 aggcctcttg gaagaagctg ccattctcca gtgaaaaagt gtttttctcc cgaagtga
62821 cattcgtggc ctccacagcc cagcagattt gctgatcttg agctgagggc tgtgctatgg
62881 gagccatccc caaagcttgg ccctgacagt tctcaaggac agagatgtat ttgggtacat
62941 atgccccagg gtggccgacg ctgcccttgg caaattttca gaaaagagac ctcttgcttt
63001 cacccctctc ctctctctcc acctgctgct gcgttttgcc ncttgntctc gcatagtaag
63061 cttcataaga ttctgggttc agctccaggc ccttagtagc aaattcctcc gccattccaa
63121 aatcctgtca ttacaatagg tgtgcaaatg agtcattgat gagatataaa aaatagacaa
63181 cttgggaata aaacaaatta ttgtacatt ttttgacatt catggatgga acgcctggga
63241 cgctagacgt gcctgacatg gctcaagccg cgtggcctgt ggactgaaag ttccctctgc
63301 ctttgtcctg tgtagcgtg cgactgctca ctggacttta tctgccaga atattaaaat
63361 agttttaatt ttccctcttt ttgctttct aataaagttc tcagcccgga agccaaacac
63421 caaccctttc cagtgaagct cctgaagtta tccatgcatg taggaggcaa acgcacacat
63481 gtccacattt cacgtggacc ctggtctgag cccacacct tcctgctaca tgcactacac
63541 tgtggctttc taaggacag gtgagaaggt gtccgtgtaa gtccgggagg atgacgtctg
63601 taaaggaaac tgcactgact acagagacta gagggagagg ggggtgcaga cagacctggg
63661 ttcaattctc tgaccagctt cataaccccc aagtgtatag tgtattttct catccatacc
63721 taccocgggg gtaggatcaa gtgtgataca gtatttaaaa gccctgcaca gttcccgga
63781 catagtaggt gtcattaat tatcgtnttt cttctattt cacagaggct tctctgatct
63841 gttccctttt ttaactggtt ccttancctt ggaaacactt aaaattaaaa ataaaaacaa
63901 acaagagaag accccagctg tgactgaggt ctgtgctctc cctagaggaa cacgctcaca
63961 ggcattgcat tcctgagaac ccctggaaac agagactggg ggggtgggtg ggggaacaacg
64021 ccgactaggc agnccatagg ttttcagtat tcccttaaat actaagctaa aagagaaggc
64081 tttcccttcc ttttagtgtc aaagccacag tatagcatgg tagcctctgg ttatggtcac
64141 gagtcctaag gcagaaaaca aggccttggg cagaacaaag gccctggggc ataggtaaaa
64201 aaatttttta aaagttgat ggaaatctc tacctaagaa gacagacgtc tgggtgttgg
64261 cacagtattg gcccaggagg tgattaacaa ccgcttctga acaaatgtgg agctagaaaag
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64561 atgaaaatct gtctcccgag accgccacct tctcccttcc cggggttggg gggcctcttc
64621 cacatcccca ctccctcag caccctggag caactctgcc tctgagggcc atggcgttgt
64681 tctctgagac agtcagggtt aactctgcct ctgaaggtea tggctgtgtc ctctgagata
64741 ggtttaactc tgcccttgaa ggtcatggct gtgttctctg agacagtcag gtttaactct
64801 gcctctgaag gtcattgcta tgttctctga gacagtcagg tttaactcag gttccttcca
64861 gtgtcagggt ttagggtctg gaatggatga tctaaagggt acacacacaa atctttctgg
64921 aagatccctg gccatgaggt tcaaatcttg cttctgtcca gctgagtttt taattgatca
64981 atacatctgt ttggttggga ttatttttat ctctgaggga actgtgagac ctcatgcagg
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65161 gagatgggtc tgcaaggtag ccaggaagga ccgtggctta ccagggaaac aataaaggtn
65221 cagggggnat ttctgacatt cccctaggga caagaaaggga catagcatgc tgggatacaa
65281 aaatgaggaa agaagcgaaa agttcgatag cctcaaaaat taaaccttca aaacctggt
65341 ccacccctc tccttacctt ttcttcaaat gataagggaa tatacctgaa attaatgact
65401 acaattcaca tctaattgca actggaattc tagtgaccac tgccttcaca tttcccnnaa

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# FIGURE 3 (continued)

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65461 agaccagaac actgacttgg tggatatgggg gtgggaaaga tggatttctc atcactttca
65521 gttaaattat gaacattcag aaagctgcaa agtactcgca gcathtaatt ctgtacagtt
65581 tgagatacag attgtactta gacttgattt ctttcaaatt gcaaatgtca gtgctctgtg
65641 aaggacaacc aagttccaaa tggggcagag gaggatttca ggggcctggg aaaagctagt
65701 gagtgcacac ggctatcagc taccaggatt gcagaaagga gttgggggtga cagggactta
65761 cgttcatttt cctgcgcacac cgagagaggt tgaggaggag agacaccttt agttcccggg
65821 aagttttcaa gtccctacca aacccttctc tagggaaact cttcagggcg tactggtagc
65881 gctgggcagc ttcccttact ttacctttct aatgggagca caagatggcg aaacacacag
65941 ttggtctgct gaacagctga ggaagtgtgg tccccactcc cttcttcttc tcagcagctg
66001 ttactaaggg ctaaccctcc caaacgccag cctagagagg agttctggcc ctgatggtga
66061 gggcagaagg gtctagtctt ttctatagga aactcacctg gcaggaaagg caaggttgag
66121 gggataccca agatacaagc cagggagcaa agccttggca aatggaaggc cctggaccct
66181 gacttcccaa ctggattcca aagaggctga ccatgctcat ttcaaagttc ctttgctctc
66241 tataacacat atgacttcct aaccccaagc actccaaagt tattacttcc tccttaattt
66301 ctggcctgtc tggagaactg tttttttggg ctgacgctcc acctggccag ccctctagaa
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66481 gtggcagtag aaaagtgaag tttagagttt gtgattccat ctgatgttgc aggagggatt
66541 atccaagagg aagtaaatct atgaccaatt tagagatctg gccacagcga ccttgaactt
66601 ttcttccact ttgtatctga aaatctataa gctgagacca gaaagatgca ggccgcatct
66661 cccacccctt tagctgatct ttatccactc tattccttct ctatagttac aactccacag
66721 ggatcccagt cttttacttt tcccttagca ccattcacta aggagagatt tggagtcttt
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66961 nnnntttttt tttttttttt tttttttttt tttttgtatt ttagtagaga cggggtttca
67021 ccgtgttacc caggctggtc gcgaactcct gagctcaggt aatccgcccg cctcgccctc
67081 ccaaagtcct gggattacag gcgtgacacc gcgcccggcc agttttactc ttcttaaate
67141 tgatgttcat ggcataaagc aggagtagtg gctttaaata tctactagca cagctttcag
67201 ttgctctgat cgctatcatt cacaactttg agtaaaagga agaaagaaaa ttcttccaac
67261 tgacttatcc aactttcaaa aatgagtttg ttgcaatgcc agtttaaaag ctcccctact
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67501 gagagaatgg atatcaggaa gcaagagcaa cagtaattct ggcagaaggg ctaggatcca
67561 tgagtaccgg gggggggtn gggagtaggg gcggggaagc ttgtacaata gatcgtctta
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67861 actacactgc cgactacaca agaatgctgc ctggattaaa ggagacagac aacgagtacg
67921 aaaccttcag cacagggcca gacagaggaa ccgctccgtg gccctagggc gagtccgcaa
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68281 atctatgggt ccgaaggag gagaggagg ggcgggcagg aacggcctaa cccggaagcg
68341 gggatgcggc gacaaacaac gacgacggcc gagcccgacc cctagtcca aaccagcttg
68401 ggaacggacg acaaccacct tccgttttgg gacgcccgc cgccctctcg gaacggaagc
68461 cgccgggacc ccgcagcggc accggccgtt ggttgctga cagtccttt cgaaaggatt
68521 ctttcttgtc attggttatt gcggccgtag cgtctgaaat ctctcgtcta ttgggttaaa

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# FIGURE 3 (continued)

68581	tgtttgtcat	tgcaactact	cgccccgccc	aactctcgga	ggcaggcgct	ttggcagccc
68641	caaaggtcat	tggttgccca	agatgtcagt	caggcagata	acggctcagt	gcgggtggtg
68701	ggggcgtagg	tgccctggag	gcgagcgtgc	tgtagcagcg	ggcctccaag	ttctaggcca
68761	agtctctgag	agtgaacccg	tctgtgacct	gcgctgactt	cccctccgct	gctgctgttc
68821	tgagcggcct	ctccacgctg	tcgagtaaaa	gtacaattct	gccttagtgg	aagacctact
68881	gacttttcg	ggacagagcc	ctgcggcctg	gcagncctgg	cctgcgcccc	acgggtacca
68941	ccttccccgc	ccatctcttc	ccaggggccct	tttaaccgga	aagctgctct	ctccgtgect
69001	cagggacagg	cttcggggcg	gcagatgcgc	tcagggccag	gccagcttga	gtcaggccct
69061	cccgcgcttt	cctgcaggat	ctagaaatgt	ccccgaattc	tggggtaggc	accgaccgga
69121	ccagcttggc	tctgtttttg	tcagttccca	tectgtacct	ttcccgcctg	ggatcccaac
69181	gcdaatgcta	atccagcccc	aaaggtatct	gtgctgtga	gttggaagag	gggaaggggc
69241	agagaccaa	tgacaccttt	atataaatta	tttccaattc	tcagctttca	tcaaaattga
69301	aggaggtttg	tattgaattg	ttggatgata	acatntaaat	actttttttt	ttttttttna
69361	aagacagggt	cttgccctgt	caccacaggct	ggagtgcact	ggtgtgataa	gggctcactg
69421	tagcctggac	tgccatagggt	caaacgattc	ccccacttta	gcctctggag	tagctggaac
69481	cacagacatt	tgccaccaca	cctagctatt	tttaaattat	tattttaga	gatgagatct
69541	ctccatggtg	cccaggtgga	tctcgaaact	ctgggctcaa	gcgatccctc	cacatcagca
69601	tcctaaagta	ctgggattac	aggcttgagc	caccattctg	ggcactaaat	ataattttta
69661	atgataaatg	atttttccac	ctcccagggt	caagtgattc	tctgtcttca	gcctcccagag
69721	tagctgagat	tacaggggtg	caccaccaca	gccagcta	ttttgtattt	ttagtagaga
69781	tggggtttca	ccatgttggt	cattctgggt	tcgaactgct	gacctcaaat	gatcttccag
69841	cctcggcctc	ccaaagtgtt	gggattacag	gcgtgagcca	ccgcatctgg	ccaagaaatc
69901	ctcttttttt	tttaattttt	ttttattttt	gagatggagt	ctcactctgt	cgcccgggct
69961	gtagtgcagt	ggcactatct	cggctcactg	caacctctgc	ctttagggtt	caagtgattc
70021	tcttgcttca	gcctcctgag	tagctgggat	tacaggcgcc	cgccaccatg	cccagctaaa
70081	ggaaatcccc	tgtaaaggag	aaagtttaaa	aacaaattta	aaaaggaaag	aaaaagacgt
70141	acaaaattcg	cgttacctgt	cttattctaa	taaaaaatat	gatattttat	cacagatata
70201	ggaactaacg	gggggagaaa	attttctctt	ttatgacgta	tatttccaaa	aaaaatttta
70261	gtttttatta	gaaaattgaa	tatatattta	tgttggtttg	aacaactgta	ctactaatag
70321	atgtaaccct	taaagcctta	ttaagggttac	aaaaattaat	tttaaaatgt	caattaattt
70381	atacacattc	gttttgaggc	agggtcttgc	tctgttatcc	aggtgggtgg	gcagtggggc
70441	aaacagtgc	tattgcagcc	ttgacctccc	gggctcaagc	aatcctcctg	cctcctttat
70501	ttttttaga	gacaagatct	tgctatgttg	cccaggctgg	gttcaactgg	tcctcccacc
70561	tcagcctccc	aaaatgctgg	gattataggc	atgagccacc	ccatgaccga	cctacttttt
70621	ttttgaaacg	gagtcttget	ctggtgcccc	cgctggagtg	cagtggcaag	atcttggtct
70681	actacaagct	ccacctcctg	ggttcacgccc	attctcctgc	ctcagcctcc	cgagttagctg
70741	ggactacagc	acctgccacc	acgcctggct	atnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
70801	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
70861	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn
70921	gctnttggtg	cccaggcagg	agtgaagtgg	aacaatttgg	gttnaaaaaa	atttttgctt
70981	ccccggttca	aggcaatccc	ctccccacc	cccccgagta	gctgggataa	aaggaaatgaa
71041	ccacaacgcc	tggtcaattt	ttgtattttt	agtagagatg	gggttctctc	atattggcca
71101	gcctggtctc	gaactcccg	cctcaggcga	tctaccacc	tcggcttccc	aaagtgtctg
71161	gattacaggt	gtgagccact	gtgcctggcc	gtcttttcat	tttcttgatg	gtgtcattga
71221	agcacaaaag	ttttaaattt	tgatgaagac	caatttatct	gttttttctt	tcatacctta
71281	tgtttttggt	gtcatatcta	agaaaccatt	gactaatcca	aggtcacaaa	gatttattgc
71341	ctatgttttc	ttctaaaagt	tttatgattt	tagttcttac	atcaaggtct	attttaagtc
71401	ttttgttttg	ttttttgttt	tttggtttga	gacagggctt	tactctgtca	cccaggctgg
71461	agtgcagagg	cacaatcatg	gctcactgca	gcctcaacct	cttggcctca	agcaatacctc
71521	ccacttcagc	ctcccaagta	gctgggtatta	tagacatgcg	caaccatgcc	cagctaattt
71581	ttttgtagag	atagggtttc	accatattgc	ccagactggg	ctcaaactcc	taagctccag
71641	tgatccgccc	acctcagctt	cccaaagtcc	tgggattata	ggcatgagcc	actgcaccca

# FIGURE 3 (continued)

71701	gccccaaatt	ttgtatatgg	tattagaaag	gggtccaact	tcattctttt	acatgtggaa
71761	atccaattgc	cccagcacca	tttgtaaana	atattttctt	tcccatttaa	ttgtcctagt
71821	gttcttgtca	aaaacaattg	aacataattg	tatgggttca	tttctggact	ctcaattcta
71881	ttccattgtt	gagcatattt	ttaagggctg	ttttctctc	ctgtggtaac	tggtagacctg
71941	tacttcctgg	aagagagatg	aaaagattcc	caagccaact	gagttacctc	acgtgggtca
72001	gggtctctgtg	gctctctgca	ctggcctatt	cataatgata	tcctcctgca	ggatttgagc
72061	cttctccttt	gttgtgacgg	cagccgagga	ggtygctgac	tgcccagaca	gccttatctc
72121	tttccctacct	ttcaagggtta	ttgtaaatac	caaattagat	tgtttatata	caagaattta
72181	gcactaaagc	actatacaaa	tgtaagctat	ttattttctat	ttatccttct	ccttcctgaa
72241	taagacccta	aaaatagaag	atatttttaa	tttttactca	ctgggctcaa	ggttgcagtg
72301	tcctgtattat	tgcaaatccc	aaattaatga	agtctggctc	ttcttatatt	attcctgcaa
72361	aaggctgtgt	gctcaccctc	cggagtgtga	atacagagtgt	gggtcatttc	ctcttctctc
72421	tgcacccttc	cttcgatgag	gttttgccct	gtgctaggca	ccatgctaaa	ctctgagaaa
72481	accacagaga	acaaggcaga	cgccatccct	gccctccagt	aacatacaat	ttagtgtatga
72541	agctggggga	tttaacaagc	cattctaata	aagcgttaca	gtgaggagg	tgcagggtga
72601	tgccctccagc	agccctgggtg	tcagctgctc	caggctccagg	ggaagacttc	cattatcttc
72661	caaccctgtc	ggaagtggag	gcggaggctg	tttattgctg	acacagtncc	ctaaccagg
72721	gtctatagac	attgtggaaa	tgccctggag	tcagacggga	gaatgaacca	gcagaagcaa
72781	tgcccgccct	ccaccctcct	gaagagggtt	ctcaggaact	ctttggaggc	gaggccagcc
72841	tctggntgna	gnngcctctg	gatacagggt	aggcctcagg	ctcttctcct	ctctactcat
72901	ctctcctccc	ttnggccccct	ccttcagagg	ctgacagagc	cccactctca	tctcttcccc
72961	acccaagcct	ctttccacag	aaagactgct	tcctcccagg	agacagcagc	tcatttgcac
73021	acagacaccc	acagccctca	aagcctggaa	ggccaagctg	ttaggacccc	tgagagcagg
73081	gtggctcctg	ggaggagagc	ccaggccacc	accttgccct	ccctggcccc	tggccttncg
73141	atggggctgc	tctgatcaca	aacgtccacc	aacgtagccg	gcccagaagt	gcaccatgt
73201	cctctggtat	ccactggctc	tccaagccaa	actgggcagg	gaggagtgtg	gagggaanaa
73261	tgcaggctcag	gagggaggct	ggcaaagcgg	gccagggccca	ggcctgaccc	cagctctcct
73321	ctcccgcccc	cactgcccgc	cagtgtttaa	caaggccctg	ccttctccct	ctagtgtctag
73381	ggacagccac	cttcttctc	ccccaccgc	ccctctccc	ctgcaacacg	tcctctgaca
73441	agtcagtgcg	atctcactgg	aggtgcatct	cacaggaacg	cggggtcaca	gcctcctgca
73501	cacactccat	gctgcacagc	aaggtgcacg	tgtccctcag	agccccagac	accatcccc
73561	actcaccag	aagcccaagt	gattcccaac	agccccagc	agcctaattg	gttggggctc
73621	tgggagcagc	tgtccctggc	tccttccctg	atcccaccgc	ccagcctcac	cccacggttc
73681	ctccattgcc	ccacctccca	ctgcgcgcgc	gggcctctgc	cagggtcaag	gggcttcccc
73741	cctctggcag	cagacgccat	ggtgcgcagg	tggcctccac	aaccgccttg	tgcgccaata
73801	ggacaagacn	tgtcctccct	ccccacact	tgtcactttg	agggacacgt	ggatgagaca
73861	ggaaaacaca	ggggagtgtg	gagacctgag	gtgacttggg	gcaagcctct	caacctgagc
73921	ggcaatttct	tcatctgtaa	aatngagggg	gttgttctca	tctctgaggc	tttgtgtcgc
73981	tctcaaagcc	tgctagcctc	gggttctagg	actctgttgg	gatcgtgtgt	gatgttttct
74041	gctgagcgac	tggcagcctg	tgtcctcggg	gggaaagagg	gcaggcgtc	caaagctcct
74101	gcgtctgtg	gtccccctc	cctgcagcc	ccaagcccca	ggtgtgcgg	ccgccttgag
74161	ccccctcagc	acctcccga	ggcgcctgca	agacacctaa	ggtccccgc	tcctcctct
74221	cccccccgcc	acaccctac	ccccggcagg	cgacgtcccc	gcccctcgac	catggcctgg
74281	tgaagaagcc	ggccaggccc	gatcagcccc	aaccgcgcg	cacgagcggc	gnctgnccga
74341	cagctcctgg	ggccccggcc	ttgtcactcc	ggaggcggga	ggctccgggg	ggtcgggctg
74401	ggaagatcga	gccggaggcc	gctaggetnc	ccaggccccg	gccgangget	gcgcggccgc
74461	acggtgggca	ggctcgggtg	nttcgggcaa	actgccgggt	ccccnatctt	caaaagagag
74521	gaggcccttt	ctccagcttc	ctctgcggga	gcccgaacca	gccccatccc	gcccaccccg
74581	ggctgcacct	cggccccntc	ncncgggcnc	ncgcgcccc	gcccggggcg	ggccagnгаа
74641	ncctcggccc	gcgcgcctng	gggactttgg	agcggaggag	gaagcgcggc	ggggcggggg
74701	cgggggtgtg	tccgggtttta	ntaacccgca	gggcggccgc	ggcgcaggag	aaggggcaga
74761	gccgagcacc	gcgcaccgcg	tcattggggg	cgcctcgggc	cgcgcggggc	cggggctgct

# FIGURE 3 (continued)

74821	gctgcegetg	cegetgctgt	tgetgctngc	cgccgcagcc	cgccctggcg	ttgnagnacc
74881	cggtgctgcag	ccngaaact	ttctngctg	acgaggccgg	ggcgagctc	ttcgcgagca
74941	gctacaactc	cagcgccgaa	caggtgctgt	tcnagagcg	tggccgccag	ctgggcgcac
75001	gacaccaaca	tcaccgcgga	gaatgnanaa	ggccaggtgg	cgcccgggcc	cgggcggggg
75061	cggggcgggc	cgcgcgggcc	aatcacagca	cgcgccggc	ttgtggggnc	gggcagnntg
75121	gcgcccccg	acccgaaccc	caccccgacc	cgccgacctc	gccccgacag	tcagccgcgg
75181	ggcccgagcg	cggtgctgcg	cgcacggcct	gcgctcccag	catgcacgag	ttggatggat
75241	gaggggtggc	gctcccaggc	cgcgccccgc	ttcgccgaag	gtgctgggct	tggctctggg
75301	gcccccgcg	tctcgggcag	ctgccttctc	acctccggac	gctgtcgctg	tcaccgtcac
75361	cgcactgcac	tgtccatcca	ccctccactc	cgccggcctc	ttttctggtc	ccaatttctg
75421	ctccaccatt	cccattgagg	agattccctn	ccagaaggag	gaagcgcgcc	ttccgcnaaa
75481	ctaaggcttc	ccgcagggat	ncctcccgag	gcccgggctc	tggagccct	tggccttctc
75541	ccccctcccc	agcaccgtgg	cttctccttt	atggcctgca	tctanagcag	ggtcctacac
75601	cctccctgcc	ctcctggtgc	ccaataggag	gaagcagccc	tgctcagcca	ggagtnttgc
75661	nggaggcctn	ggggcagnaa	ggccaangga	gctgtatgaa	ccgatctggc	agaacttcac
75721	ggnaccncgc	angctgcgca	ggatcatcgg	agctgtgcgc	acctggggct	ctgccaaacn
75781	tgcctctggc	taagcgccag	cangntggg	ctgagggctg	aggcagagct	cgggggcgcc
75841	ctcctagtgc	cccatcgagg	gggtcggggg	agagcagccc	atcangggag	ggaggaaccc
75901	tgggatccac	atggggccnt	gacagaaggg	naaagccag	gtaagcacag	aatggctttc
75961	tgagncattg	atctttcttg	gagatggggg	ggggagttac	tttctgttaa	aggaagcatt
76021	cntggagtag	gaagccaaat	tcaaatacac	ttctccctag	gctggtttat	gagcttcttt
76081	ggaagagttg	agaagggtcg	ggcgtggtgg	ctcaagcctg	taatcccagc	actttgggag
76141	gctgaggtgg	gcgcacgcgt	tgagcccagg	agttcaagac	cagcctggcc	aacatggcaa
76201	aacctcgctc	ctacaaaaaa	aaaatagctg	ggcttgggtg	tgctgtgcac	tacagtccca
76261	gctactcttg	aaactgaggg	ggaaggatca	cctgagccca	ggaggtcaag	gctacagtga
76321	gctgtgattg	cactactgca	ccccagcctg	cgtgacagag	tgagacctcc	ccccaaaaaa
76381	aagagagaga	gaaaagggtg	agaaagactg	ggaagtcacc	aaagccagag	aatgggaggg
76441	atctgcccctc	actgcagggt	ggtgccaaag	tgggacttga	ccctgacctc	gactttcagg
76501	actcctgtcc	cccactccac	aggctgcctc	cactggcagg	ggactcagaa	gtgatccggt
76561	cacactaagt	gacacttagt	gatcagaagt	gccccgggtg	cactgagtgg	ccttgtccaa
76621	gctacatcca	ctctgtgggc	tcctccttgt	agcagcgagg	ggagggcaga	tgtcccaggg
76681	gctggtcact	ggagcattcc	tcccccttga	ctccccagta	caacgcccctg	ctaagcaaca
76741	tgagcaggat	ctactccacc	gccaaggctc	gcctccccaa	caagactgcc	acctgctggt
76801	ccctggaccc	aggtacggcc	cttgagctc	ccctctcggc	ggtgccctag	tgttcccaca
76861	ttgccctgct	gcactccgga	ccatgcagtt	gtgtagggtc	tgtggagaca	gcaggtaaac
76921	ccaaagggtg	tgccctccaa	ctggggctgg	acggtgcaga	tancccccac	gcctgcttcc
76981	tcttggcaag	tggacttccg	gaatctccag	ctgcagcccc	caattctgtg	tgtacctcgg
77041	cctctcccat	cacccttagg	ccttctcctc	ggctgctggg	tttccccctt	cgtgggtcct
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77161	tccagccccc	tttatgagca	gcttcgagga	aggcactcca	tccaataggc	cgctaagtgt
77221	ctgtctgggt	tttggccttt	gggtgtcccc	ttggtgtcag	ccaccttagg	tggctcatgtc
77281	tctggggcag	gggcccctgc	tggngtgttt	ctgtagctcc	cagccccctc	ccaccaggcc
77341	tgtagggtgc	ccctgtctct	gggggcaccg	tgatgttcag	gaagctgggtg	ggagcagtaa
77401	ggactggtgc	aggctctggt	gaaggccgnt	tgaagacttc	aacgtggagg	cctcctcacc
77461	gacctgcctc	gcctgtgtct	cagatctcac	caacatcctg	gcttctctgc	gaactacgnc
77521	catgctcctg	tttgctggg	agggtggca	caatgctgcg	ggcatccgc	tgaaccgct
77581	gtacgaggat	ttcactgcc	tcagcaatga	agcctacaag	caggacggtg	agcaggcctc
77641	tcctgttcca	ggaaccacgc	caggtgtcct	ctctcagctg	tctccccaga	gtcccagccc
77701	agagtcaggc	agagcagctg	gtatgacaat	tccagcaggc	cctgagtttc	ccagaaagtg
77761	gaggtgggac	cggcctgcac	ccagtgtgcc	tggactttgc	tgctggcctg	ccccacgtgg
77821	ccatcctgct	gtcactcctg	gccctgatgc	tcctctttgc	ctctgggaac	ctccaggatc
77881	tgttttagctg	gctgtagcta	attagaaatt	gtagagtggc	aacccccaa	ccaattttcc

# FIGURE 3 (continued)

77941	agctagctgc	agatccacgg	gcctcgagcc	agtggaagag	ccgacttaca	gctgagagggc
78001	tgagggtccga	gcctttggcc	tgagctacat	acctcaccac	cacgccccca	ggcttcacag
78061	acacggggggc	ctactggcgc	tcctgggtaca	actccccac	cttegaggac	gatctggaac
78121	acctctacca	acagctagag	ccccctctacc	tgaacctcca	tgcccttcgtc	cgccgcgcac
78181	tgcacgcgcg	atacggagac	agatacatca	acctcagggg	acccatccct	gctcatctgc
78241	tgggtaagga	cctggcctcg	cctccacatg	agtcccacgg	aagtgtgggt	cccagggtag
78301	gggtggggga	tgtccagggt	aagggaaggt	gggttgtgac	cctcacatct	cacatgtgtg
78361	gggcatcata	ctgtttgctt	cacatgcagg	agaccattcg	tgttcccact	ttacagggtg
78421	ggaccctgag	gcttaggggtc	gtgagggaact	tagtgggtcag	agagctaggg	gccaaaccaa
78481	aggctctggc	cctgggtcca	gtgggggagc	catcagccta	gctcatgccc	naaggaaaca
78541	agdactgtgg	ccctgcctca	ggattgagtg	gctggggcct	ggcacagcca	gaaatgacag
78601	tggcagcatc	ttgcagcccc	aggacatgtg	gccctcggag	gagtgtgggt	gggactgatg
78661	tgtgagattt	ctggccctaa	gccaggcctg	ncagcccttg	agggccccag	ggtagagggtg
78721	ccggccccag	gggtgccactc	agcgatgcat	gaagaagnca	ggcacagcca	ggcaggggagc
78781	caagctgtcc	ccttccttcc	ttatctagga	gacatgtggg	cccagagctg	ggaaaacatc
78841	tacgacatgg	tgggtgccttt	cccagacaag	cccaacctcg	atgtcaccag	tactatgtctg
78901	cagcaggtaa	gctctgggct	caagcctnng	gggtgggtggg	gtcgggggtg	gggcgcaaaa
78961	aaaggggagtc	acagatgggc	acaggggcgg	gaagggttctg	ggtactgagc	agcagcctgg
79021	tgtgtctgta	ggagcagtga	gctggggctg	gccccctcag	tgagggtgcca	gctcctccct
79081	ccaggctcca	cagtggcagg	atgagagcaa	caacgcactt	tcactcatct	gctgtgggag
79141	tgagggccct	gcctctggga	atgggtggcca	cagagcagag	aagctttcat	gcacaggggag
79201	ttgaccccgag	atggggaccc	cagccctgtc	cccaggccag	ccagagtggg	ctccccctga
79261	cctggctcca	caccctcct	ccagggtctg	aacgccacgc	acatgttccg	ggtggcagag
79321	gagttcttca	cctccctgga	gctctcccc	atgcctcccg	agttctggga	aggttcgatg
79381	ctggagaagc	cggccgacgg	gcgggaagtg	gtgtgccacg	cctcggcttg	ggacttctac
79441	aacaggaaag	acttcaggtt	cagacatggg	aagagcacgt	tctgggggtc	cccggttctg
79501	gggcccgggg	aaaggcaggc	agcccaggcg	cagggaaagt	ggttcccagg	ggtcctcta
79561	ccctacccca	gcactgggtg	gaggctgggt	ctgttccagg	gctagggggg	ataggaggcc
79621	tattagtcca	ccttctctgg	cagctttgac	aaatagtcac	ttctatacct	tggaatggag
79681	gaagaaggcc	caagtgggtg	tgagccaggg	cagggtaaag	aatttgcttg	tttctgccag
79741	gcacgggtgg	cacacctgta	atcccagcac	tttgggagg	caaggcgggt	ggatcacctg
79801	aggccaggag	ttcgagacca	gncctggcca	acatggcgaa	accccgctc	tactaaaaat
79861	acaaaaataa	attagccagg	ggtgatggcg	ggcgccgtgta	atcccagcta	ctcaggaggc
79921	tgaggcagga	gaatctcttg	aaccggggag	gcggagggtg	cagtgaagctg	agattgtgcc
79981	actgcaggcc	agcctgtgca	aaagagtgtg	acgctgtctc	aaaaaaaaa	aaagaaaaaa
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80341	gcgctctcgg	tctccactcc	tgaacatctg	cacaaaaatcg	gcctgctgga	ccgtgtcacc
80401	aatgacacgg	gtatgggagg	gctgagaggg	ccccaccacg	cctcacctaa	accccgctcc
80461	acccacacag	aggacctcac	ttgccccact	cagctctgcc	cttctttctg	cctcccgccc
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80641	ctctgcatct	ccctggcctc	actttctgct	gccccgccag	cccacactct	taggggaccc
80701	tcttctccct	ctgacctctt	ccctctcctt	tcctctcatc	tcccaacaga	aagtgcacac
80761	aattacttgc	taaaaatggc	actggaaaaa	attgccttcc	tgccctttgg	ctacttggtg
80821	gaccagtggc	gctggggggg	cttttagtggg	cgtacccccc	cttcccgtta	caacttcgac
80881	tgggtgtatc	ttcggtgaga	ggagggatag	aaaagccttc	gccccagcta	gccctcccca
80941	gcctcctgga	cagccaggcg	cctcctgccc	cagccagttc	tagcctctcc	tctctaataa
81001	tgtcccccg	tgtgaccac	cgccttctcc	tttctgcct	gaaactccct	cttccaggaa

# FIGURE 3 (continued)

81061	gttttcccca	gttcttcagg	atggggaagg	gttgccgggt	ggaaatgcct	tttctacaaa
81121	agctaaatcc	atctgtttgc	aacctctagg	ccctaagaca	atttaacccat	ccttttccag
81181	aaccaagtat	caggggatct	gtctctctgt	tacccgaaac	gaaacccact	ttgatgctgg
81241	agctaagttt	catgttccaa	atgtgacacc	atacatcagg	tattagcgcc	cccacccac
81301	ccacccccag	tactgtcaca	ccctcaatcc	acttctcctc	ctgtgttcc	agctgctca
81361	tccccagggc	ttgtcctcat	gtcctccag	acctcaaagg	cctggagtta	gagtggccca
81421	ctctcctgag	cctgtcttgg	gtctcccttc	tcccccaaga	tagcttctgg	tccagcctct
81481	gccctgcagg	aagctggatg	gtgcctgggt	aaggaaacccc	tgttcctggc	cccccatgat
81541	cttccctgac	tcccaccctg	tgccctgcagg	tactttgtga	gttttgtcct	gcagttccag
81601	ttccatgaag	ccctgtgcaa	ggaggcaggc	tatgagggcc	cactgcacca	gtgtgacatc
81661	taccggtcca	ccaaggcagg	ggccaagctc	cgggtgtgtg	tgggaagccg	ggggaagtgg
81721	gaggcagaga	ggagcggctg	gcaaaggggtg	tggcaggagg	tgctctggctg	ctctgatggg
81781	gtgggggggca	ccaaccacag	agctggactg	atgtggatgc	ctgtctcctc	gctatgtcat
81841	caaataattta	ttgagtgggc	cttctggctg	gcantggggc	gacacaaatg	ccccctgcc
81901	ccatcagaga	gatcccaggc	cccagggtct	tattgccaca	gtttctgcag	tccatgngg
81961	gggcggaagt	ggccaggggc	atgtggggcg	gggtccaggga	gcagactcca	gcctgagtc
82021	cctgtgccca	tggtacccac	tctgcccacc	aggaaggtgc	tgaggctgg	ctcctccagg
82081	ccctggcagg	aggtgctgaa	ggacatggct	ggcttagatg	ccctggatgc	ccagccgctg
82141	ctcaagtact	tccagccagt	caccagtggt	ctgcaggagc	agaaccagca	gaacggcgag
82201	gtcctgggct	ggcccgagta	ccagtggcac	ccgccgttgc	ctgacaaacta	ccgggagggc
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82381	tggagggcca	ggcagccccc	caagctcatc	agcagggcct	gcgagtgggg	acaggcatgt
82441	ctttccccc	gcattcctaga	gagggtgtgc	tcagacctga	gggccccctcc	ccttccagag
82501	gaagccagac	acaaggctct	gtgaggtcac	nactgcggcc	tccgctcttn	nnattggcca
82561	ggggacggta	gctgcaggac	tctgctctcc	tgccggccatg	ggccagggnt	tggtgactg
82621	caggacttcc	cagctcctc	ttcctgctgc	tctgctacgg	gcacccntct	gctggtcccc
82681	agccaggagg	catcccaaca	ggtgacagtc	acccatggga	caagcagcca	ggcaacaacc
82741	agcagccaga	caaccaccca	ccaggcgacg	gcccaccaga	catcagccca	gagcccaagt
82801	gggaccatgc	aggggagggg	cagggtgcca	gggggtggag	aggcggggcc	gggntagggg
82861	cagggcaggg	tacaagggag	tgcgagagg	ataatggctt	ctggtgagac	cacaaacctg
82921	gagaggggag	gcagaggttt	gtctgtttcc	ctgcaactctg	tcccacagac	ctggtgactg
82981	atgaggctga	ggccagcaag	tttgtggagg	aatatgaccg	gacatcccag	gtggtgtgga
83041	acgagtatgc	cgaggccaac	tggaactaca	acaccaacat	caccacagag	accagcaaga
83101	ttctgggtgg	agccacctcc	ccacccccaa	acctgagcat	gtgcatacac	acagagatgc
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83281	aggcggggcg	atcacgaggt	cagnnnatca	agaccatcct	ggctaacacg	gtgaaacccc
83341	atctctagta	aaaatacaaa	aattagccgg	gtgtggtggc	gagcacctgt	agtcccagta
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83461	agatggcacc	actgcactcc	agcctgggcg	acagagcgag	actccatcaa	aaaaaaaaaa
83521	aaaaaaaaact	caatttcaga	ttttgatgaa	catttactca	atgcctgagc	aattcttctt
83581	tccttaaaaa	tcagtctctg	ggaggcctag	gtgggaggat	cacttgaagc	caggagttag
83641	agactagcct	gggcaacata	gcaagatccc	atctctattc	aaacaaacaa	ataaacaata
83701	atcaatctct	agtaacagaa	taatttgtac	ataaataagt	ggtgctcaag	tcgtttttta
83761	aaagattgaa	agcctctgtt	tgtctcctct	acaaaagggg	ctacacttcc	tctttacctt
83821	cattccctgc	ctatttggct	gagcacaat	tatgccactg	agccacacac	tggtactgtt
83881	ccttggcact	ttgatctgtt	gcctcatctt	tttctcaaca	gccttgcaaa	attggtgagc
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84001	ctaataccaa	gctggctcct	tcnctaagg	cctttaagac	acttgggggt	cttctcttct
84061	ctgcccctgc	ctggatatgt	gttgcttgac	cgcaggcatc	cagggagggt	gagtactgca
84121	tccaggacgt	tatcagcgct	cagcttgcat	agagtcttat	aggcaaagg	tgcaacttaa

# FIGURE 3 (continued)

84181	ttccactgcc	ccctcaccac	cacctccagc	cctcagctcc	cacttggggc	ctcccgtca
84241	gaggctgctc	tggagctcct	gggcccgtg	acaccatccc	cctgtgccct	cagctgcaga
84301	agaacatgca	aatagccaac	cacaccctga	agtacggcac	ccaggccagg	aagtttgatg
84361	tgaaccagtt	gcagaacacc	actatcaagc	ggatcataaa	gaagggttcag	gacctagaac
84421	gggcagcact	gcctgccccag	gagctggagg	aggtgtgtgg	ctcgcaaggt	acagggagag
84481	gggaatcctg	gggcagtgag	cccaacacag	ggtctggcct	ggccttcacg	ctgcttctc
84541	ttcctcgttg	tatcaagtca	tggcatctgc	catgcgatng	tgcacctcag	aactgctgag
84601	agggcagcgc	tccccagctc	cctggctccc	cacctgccag	cccatggggc	tnggggtag
84661	tgcaggcccc	agagagacca	agtgcaaagg	agtacagctc	attgcctctc	cttctcctg
84721	cagtacaaca	agatcctggt	ggatatggaa	accacctaca	gcgtggccac	tgtgtgccac
84781	ccgaatggca	gctgcctgca	gctcgagcca	ggtgagagct	catgtgcagg	ctgagtgaga
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84901	cccctcgctc	ttggggtcag	cgtgcccagg	aaatgccctt	tcttgttttc	cacgaggggg
84961	gcttctctgc	cccactgaga	gcggccacct	acttcatacc	atgccccgat	cagctgcccc
85021	tccctcagaa	ccgcctctctg	cttaaggggtg	tccactctct	cctgtcctct	ctgcatgccg
85081	cccctcagag	cagcgggatc	tcaaagttat	atttcatggg	cttggactcc	aaatgggggg
85141	aactcgggga	cactagctcc	ccccggcctc	ctttcgtgac	cctgcccttg	acttctcac
85201	cttctctgtc	tttctctgagc	ccctctccca	gcatgtgact	gataaggaaa	ttgagtcaca
85261	cagcccctga	aagcgccaga	ctagaacctg	agcctctgat	tcctctcact	tcctctcact
85321	accctgccac	ttcctactgg	atagaagtag	acagctcttg	actgtcctct	tttctcccca
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85441	cacacagata	cctcccagct	ccctctcaac	ccacccttcc	cagggttgga	gaacttgagg
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85621	gttttcccag	gacagggttt	ggcctacaag	ttgtggatgt	gggtacccat	gccaagtgtg
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85981	tagctgctag	ggaggctgag	atggaaggat	tgcttgagcc	tgggagggtca	aggctgcagt
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86161	gaggccctgc	aggtgtctgc	agcatgtggc	cccaggccgg	ggactctgta	agccactgct
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86341	aggtgagcta	agggctggag	ctcaaggcat	tcaaaccctt	accagatctg	acgaatgtga
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86461	cggggagagc	catcctccag	ttttacccga	aatacgtgga	actcatcaac	caggctgccc
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86821	cggggcccag	cacatcaacc	tggaggggcc	cattcctgct	cacctgctgg	gtaagggcac
86881	atgtcgggcc	ttgaggagg	taaagacgga	ccacagtgtg	agtgagggtt	gggacagggc
86941	tgactagagg	gtagggagca	ggctggggac	tgagagactc	cagccctgtg	ggggatgggt
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87061	acattcactg	cagatctatg	tcgggcaagt	caccatggat	gggggaagaa	gttaataatc
87121	ttgtccagga	gaccacggca	cccatacaaa	cattgtgtga	tcttagaggg	cgaggaagag
87181	gctgtgagtg	ggagctgggg	aggctttgcc	aagaggtggc	ctgtgagcag	ggcctcggaa
87241	gatgacaggg	tttgacagat	gggaagtggg	ggatgagagg	acagacgcag	tgttcaggcc



# FIGURE 3 (continued)

87301	aagggaactg	gaacaaagaa	gaacctgaga	atgtaaatct	acttcaaccc	tggaccctcc
87361	tttgccaagg	gctgcaatct	cagatgccct	gaatgtgtga	agtaggcgg	gaggacagta
87421	agggatggta	gggagtaagg	caaagcagag	gctactgggt	ctctgtccct	gatgggctgt
87481	taggaacact	ttcctggagc	agagagacca	gacaggccct	cagaccattt	agaaactata
87541	agggaggccc	cagaggacgg	cctggctgtg	ggtctagctc	ccacacaggc	tgggagtcca
87601	gccctcttca	gccccctctc	ggtgagacca	aagaacatct	ggtgatgtca	cagtggacgt
87661	cagttcacca	actgggagac	acaggncccc	gggaagaaaa	gcaacatgcc	cagcgtggcc
87721	tgggagctgg	ggcagagctg	gccttagaac	tcagcccttg	acaattggta	aaaggggaaa
87781	ggggagcaac	ctaactctga	tgcgctctct	gtctctctct	ctggctctct	ccctggctct
87841	ctccctcttc	tctctcatgt	tctctccatc	actcatcgct	ctaaccctct	ctcactgggt
87901	tgdactttag	acttcatctg	atgtcagccg	aagcttcacc	tcacttggct	aggaaagagc
87961	cttgagtcca	aatctgtttc	tgagccttcc	attcatcctg	agtttcttcc	ttttcctctg
88021	ctgtggagaa	ctaggctctt	ttcttacact	aaactcagag	gcacagccct	ctncctgaag
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88261	gtttccttta	ctagccaatg	ggaatcgtga	cagtacctgg	gtgcagacag	gattgaaagt
88321	gaattcacac	aatgttcttg	gtgcagagcc	aataagaggt	ggccaccggg	gtgtaggtgt
88381	tctggggacc	tgtaatgtcc	tcacatgtca	gcagttgcta	gtcacattgg	tctccactgc
88441	tcacggacag	tgaagaccac	ctggattccc	tgataaccag	caaggccccc	acctagagcc
88501	aggcagtaat	gacctactgg	gctggatatg	cacaccaaag	atgatgtgtg	cctcaaagct
88561	tgcaaacagt	aggtgctcaa	gaaatgccac	tatgattagc	aggactggga	tctggagcgc
88621	tcttcctgca	ggagggcatt	gagcctaagt	aacatttgtc	tttctctctc	ctgccgtccc
88681	ccacactcgc	ctccagggaa	catgtgggcy	cagacctggt	ccaacatcta	tgacttgggtg
88741	gtgcccttcc	cttcagcccc	ctcgatggac	accacagagg	ctatgctaaa	gcaggtccgc
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90121	tggcaaagac	catctgtcac	agctgaagaa	gtgtctctta	caaggagaac	agacacgggg
90181	agcctgaaac	aaaacccgat	gggattccct	gggctgtgca	ggcccttcca	ggcatgagga
90241	ctcagccaca	gggctngaga	nggagacagg	atctggggga	tgagagccct	tgtggggctc
90301	ttcccttttat	ggggagtcag	aggagaagct	ggatagatcc	ccagccttgt	ggccaggatg
90361	ctgggcagct	cttccttccc	cctccccgat	gagaatgaca	gaaaaacagg	attcacctga



# FIGURE 3 (continued)

90421	gccaaaaggc	ttccagttag	atccaagaga	gaantttccc	gcagtttgaa	ttggtttgct
90481	aaacaacaag	gaagggctgg	gtgcggtggc	tcacacctgt	aatctcagca	ctttgggaag
90541	ccgaggcagg	aggtctgctt	gagctcaggg	gttcgagacc	atcctgggca	acatagcgag
90601	accccatttc	ataaaaaata	aataagtaaa	tgagaacaag	gaaggactga	cgagagacgg
90661	tagaaccttc	tggtttgggc	nagctctgca	gctgccattc	atcctggcca	taagaattct
90721	tggggtgaat	aagtttgtcg	ctggtggggc	gcagtagatg	cagaatcgcc	cactctcacc
90781	cctgacagaa	acagttgttt	ccttcaggga	gcctccatct	tgggagataa	agcatgtgta
90841	catgggaacc	cactggccac	acattctcta	gaaagtaac	aatgtcccag	tgcctctaga
90901	gcaagcactt	tgtacagtca	gaaagcaaca	ggtggtgggg	gctggagtca	ttcaggaaaa
90961	tgggaggcag	aggaatggcc	tgaacggccc	gatgctaggg	gcttctgccc	ccagattccc
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91801	accaggagtg	gtggagcctc	aggttctgga	acactcccac	gggatgcggg	ctgggggatc
91861	tctgcgagtg	tctgcatgtg	cctgggtgtc	tggatggggc	agggtagggg	agtgtgtgtg
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92581	tactattatt	gaacattgtc	tgcgatacaa	tttgaattgt	acctggaagc	ccttctagac
92641	actaaaatgt	aggattggag	atcggttaag	gtgggaggca	gggttgctgg	ggcaagttac
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93181	agcaagggca	gggcccctgc	ccaccttgcc	tcctggcacc	tgggatgatg	ccagcacatc
93241	atcaagtgtc	aataactgat	tgtgggatgg	atgaagtctg	tccccagagt	ccaggaagag
93301	ggcatccctg	gagcacctca	gataggncct	gacctagacg	gtgctccaga	gatgacactt
93361	aggancaggg	ctcccgcctg	cctgctggag	tggctccctg	ggttcccagc	cggcgctggc
93421	tctcaccggg	gagccagctg	gtgtgatggc	tagcttccca	gcttaatgca	gacaattctc
93481	caaacagggg	tgggcaaagg	agacttggct	gctctagaaa	aacattccgg	attctggcca

# FIGURE 3 (continued)

```

93541 gcagccttca caaagcactt ttaggaaaga ccaggggaact aggtggtaca tgcttgcacc
93601 cagcattcaa agtgagagggc ctgtgccact ggctcaggac attttaaacc tcttcagact
93661 ttaagctggg gagaatcctc cagccttgac tggcagattt ctaccaggga attcgtgatg
93721 ctttggtataa gatcatgtag gactggcttc cctgcccaga ccaccctagt agatccacna
93781 cgccccatth ggccacacct tgcctctact tgcataatac ccagggatgg agacctcact
93841 gcctccaaag ccacctgcca gatctcntga aggtctctgcc ctgaccccat ggagcaggcc
93901 ctcttgagtt gtggaggcag ctctgtgggt gggaggcatc tacacaggca cggctaggaa
93961 gaggtcaga caatgctaag agctgggggt ggggagctca cctgatagc tgtgggcaga
94021 gttggggggc cttggctctg ctgtgcgcac gtgacttagc acacatcaca tgtgatgtgc
94081 agaagggcct ggggcccagn tggcacaagg cctcaacca actccgcccc gggccacggc
94141 ctctctctgc tccaggtact ttgtcagctt catcatccag ttccagttcc acgaggcact
94201 gtgccaggca gctggccaca cgggccccct gcacaagtgt gacatctacc agtccaagga
94261 ggccgggcag cgcctggcgn tgagtgtcct ccagccctcc tttgtttcca tngcntctgg
94321 cctgcgcccc tgggccttga ggggtctgtc cactggagct tttgtgggaa cacttgccat
94381 tttgagccgg gaactccac ctgcagcgtg ggccaggcct gattgccatc tcttaggca
94441 cctggagccc tggggccctg ggacaagttt cagctgggag tgggtatgga gagtggatgt
94501 caggtggggg caagaggggc catgtccttc tgactctgcc tccctgtctc atgcctcccc
94561 aggaccgcca tgaagctggg cttcagntag gccgtggccg ganagccatg cagctgatca
94621 cgnnggccag ccnaacatg agcgcctcgg ccatgttgag ctacttcaag ccgctgctgg
94681 anctggctcc gcacggagaa cgagctgcat ggggagaagc tgggctggcc gcagtacaac
94741 tggacgnccg aactccggta ccgccacca cccacctcc agccttgggt cttaaccccc
94801 tccccaggct gggcagccat gccgctgaen ctncggagcc tggccctgcc ccgcacctt
94861 gccctgccct gccctgccct gcccatgctg tctccttgt tcccgtcag ctgctcaga
94921 agggccctc ccagacagcg gccgcgtcag cttncctggg cctggacctg gatgcgcagg
94981 agggcccgct gggcncagnt ggctgctgct cttcctgggc atcgccctgn ctggtagcca
95041 cctgggcct cagccagcgg ctncctnca gcatccgccac cgcagcctcc accggcactc
95101 ccacggggcc cagttcgggt ccgaggtgga gctgagacac tcttgagggt acccggtgg
95161 gtcggccctg cccaaggccc tcccaccaga gactgggatg ggaacactgg tgggcagctg
95221 aggacacacc ccacaccca gccaccctg ctctctctgc cctgtccctg tccccctccc
95281 ctcccagtec tccagaccac cagccgcccc agcccttct cccagcacac ggtgctga
95341 cactgagccc cactctcca agtctctctg tgaatacaat taaaggctc gccctcccca
95401 tctgagctg tgccctcac agggaaagcca gggacaggga caggctgctt tctgcctcc
95461 tggcagtc aa gtgggtccc ttactagggt tgttccctca tctccttca ggagccgggg
95521 aggatcccca gagctctgcc ccagcacctn cctggcntgg cgcctgnntc tccctccag
95581 cccaggcagc ccgccaactgt cctgccaccg caggcagccc ctgtctggcc caagcactga
95641 cccacgcgga ctctgggaag cagacatcct gggctgctgg cctcacattt ccactggcag
95701 tggagccttt cctgctcca caaatggcca ggtcccccca ggggaaggct tccggctgtt
95761 atcggtgccc tcagggggcg agtaccttgg agggcctgct tcaanggagg gtgccccctg
95821 gagggcacac accagcctag tgettacctt ggctcctgcc tgtaccagct ccatgactct
95881 gctcgggtga acagccttgg ctctcagaca gccattctaa cactgccagt gcagaggggg
95941 ctcagacgct ggagtgtagc agtggctgca cctgcacagg gattagctgc cagcagccac
96001 cctgctggcg tcccagcaca cactcctca ctccctgcat tggagggagt gtcattttta
96061 gggacatttt tatgactttt atgtgtatgt ttatgtagaa atttggaaaa tacagaaaac
96121 tgtaaagaaa ataaaagccc tttatatcaa cgtcaagaga taagccctgt tgacgttttg
96181 gtgtacaact tgccggaact cttctcagca catgtgtatt ttaaatggga tcacaccata
96241 tttacagtca tacatccttt tatcacttca tacaactaga tctgtttttc tgatatttaa
96301 atgccagact tgaacttgg ccaatagaag ttggtccatt tgctggggcc aggggctccc
96361 cagccacccg ggccccctctg tcaaacctc agccctgagt ctcttctggg ctttgcctgat
96421 gtcttcaccc tagctaggte catctcccaa tatctgtccc ccttagtcca cagcttttgc
96481 ccccaatcc aggtgcccgtg cgtgtctctg tgtgtccgtg tctgtgtgtg cgttgtacac
96541 aggttggct gttacaggcc cattctgtaa ggcaggatgt ggggctgagg tattttagga
96601 ttgaaagagg gtggaagttt atgattacat aggacaatgg aatttataaa catgtcctct

```

## FIGURE 3 (continued)

```

96661 aaatggttcc gagtcattcta ccaatgaaga cttcttgaat tatccccct tttcccagcc
96721 tgttttgaaa gctctttgtt taccagacaa aggtcatcaa tcatatgacc ccctttgcct
96781 tttttttttt ttttaagatgg agtctcgctc ttgttgccca ggctagagtg cagtgggtgtg
96841 atctcggtc actgtaacct ccacctcctg gctttcaagc gattctcctg cctcagcctt
96901 ccgagtagct gggattacag gcgcccacca ccatgcctgg ctaaattttt gtatttttag
96961 tagagatggg gtttaatcat gttggccagg ctggtctcga attcctgacc tcaggtgatc
97021 caccacctc ggccctccaa agtgctggaa ttacaggcat gagccaccat gcctggcccc
97081 cgtttcctat ttttatgaac cacagcgggt catgctgcct gtcagagctt ctgggcccgcg
97141 tgaggtcacc agctttcaac acgcaaagga ctgcactgca gctgggggaa gagaaactcc
97201 aactgcatc ggccctggcca gccttacct ctgggctttt gaaatagtat cttttttctg
97261 tttgttttca aacagagtct cgctctgtcg ccagggctgg agtgctggag tgcagtggcc
97321 tgatctcggc tcaactgcaac ctccacctcc caagttcaag cgattctcct gcctcagcct
97381 cccgagtagc tgggctacta cttncaggcg cagcccgccn atgccagct aatttctttt
97441 gtattttagt agagatggag tttcaccatg ttgccaggc tggctctgaa ctctgagct
97501 caggcaatcc gcccgctca gcctctcaaa gtgctaggat tancaggcgt gagccaccgc
97561 gcccgccca atagtatcat tctttagatg cctgcctctg cctccttggg tgagtgggga
97621 gaggcagggg atacctggaa agtagcagag gaagaggagg cggtaacagc aggaagaggg
97681 ccagcccagt gttttctact ggtggccctg aaggctgagc ccatccccgt gccgtgcctg
97741 ccaatgccgc tcttgggaga ccagctctca cctacgctag ccacaggtgg tggctgccag
97801 acagtttctc tgatccccac agccctcccc accctctacc ttcctctgtc tgcctaacc
97861 cttcccacc caccctggct tttaacataa gtgaaaaagt ggctaaccac acctctgcac
97921 ttatcacctg tgtgacctg ggcagtttgt ttttgcagtc tgcattttct tttcttttct
97981 tttttttttt tttttttttt tgagatggag tctcgctctg tccccaggc tggagtgcag
98041 tggcgtgatc tcggctcacc gcaagcttgg cctcctgggt tcacgccatt ctctgcctc
98101 agcctcccga gtagctggga ctacaggcgc cagccaccac gcccggttaa ttttttgtat
98161 ttttagtaga gacagggttt caccgtgtta gccaggatgg tctcaatctc ctgacctcgt
98221 gatttgectg cctcggcctc ccagagtgtc gggattacag gogtgagcca ccgccccag
98281 cctgcgtttt ctttcttacg gttcttatca accctctcag cgttgccatg aagatgaaat
98341 gagatgatgt acaaagtcct agtagagtgt cttctcttta taatgaatgc atcgtctcct
98401 gagaaagcta gtttcataac aaccccagat cagccaagtc cagatcagcc ctctcacttg
98461 agacaggaag aggaccggg gcaactgggt gccggagctg gactgaaaac tcccatctcc
98521 cagctgcctt ccaggaaact ccccaccaca cgtccttgca caaccagtca actgtcttct
98581 tactgggagc acacagagct cgtccactgg gggcccacag cttgcctcag ttccaggagt
98641 actcagccat ctccctgtgt cgcctctccc tcatcatccc tccccatgtc acatctccct
98701 cagcctctcc gtgttacctc tccctcatcc tcctqccca tgttgccctc cctcctcct
98761 ctctctcacc ctccctgccc gtgtgcctc ttcctcatcc tctccctcat cctctccctc
98821 ttcctctct

```

# FIGURE 4

```

1   mgaasgrrgp glllplplll llppqpalll dpqlqpqnfs adeagaqlfa qsynssaeqv
61  lfqsvaaswa hdtntaena rrqeeaaals qefaeawgqk akelyepiwq nftdpqlrri
121 igavrtlgas nlplakrqgy nallsnmsri ystakvclpn ktatcwsldp dltnilassr
181 syamllfawe gwhnaagipl kpilyedftal sneaykqdgf tdtgaywrsy ynsptfeddl
241 ehlyqqlepl ylnlhafvrr alhrrygdry inlrgpipah llgdmwaqsw eniydmvvpf
301 pdkpnldvts tmlqqgwnat hmfrvaeeff tslelspmpf efwegsmlek padgrevvch
361 asawdfynrk dfrikqctrv tmdqlstvhv emghiqyyll ykdlpvsllr ganpgfheai
421 gdvlalsvst pehlhkigll drvtndtesd inyllkmaie kiaflpfgyl vdqwrwgvfs
481 grtppsrynf dwwylrtkyq gicppvtrne thfdagakfh vpvtpyiry fvsfvlqfql
541 healckeagy egplhqcdiy rstkagaklr kvllqagssrp wqevlkdmvg ldaldagpll
601 kyfqpvtqwl qeqnqqngev lgwpeyqwhp plpdnyepgi dlvtdeaeas kfveeydrts
661 qvvwneyaea nwnyntnntt etskillqkn mqianhtlky gtqarkfdvn qlqnttikri
721 ikkwqdlara alpaqeieey nkilldmett ysvatvchpn gsclqlepdI tnvmatsrky
781 edllwawegw rdkagrailq fypkyvelin qaarlngyvd agdswrsmys tpsleqdlr
841 lfqelqplyl nlhayvrral hrhygaqhin legpipahll gnmwaqtwsn iydlvvpfps
901 apsmtdteam lkqgwtprrm fkeaddffts lgllpvppef wnksmlekpt dgrevvchas
961 awdfyngkdf rikqcttnvl edlvvahhem ghiqyfmqyk dlpvalrega npgfheaigd
1021 vlalsvstpk hlhslnllss eggsdehdin flmkmalcki afipfsylvd qwrwrvidgs
1081 itkenyngew wslrlkyqgl cppvprrtqgd fdpgakfhip ssvpyiryfv sfiiqfqlhe
1141 alcqaaghtg plhkcdiyqs keagqrlata mklgfsrpwp eamqlitgqp nmsasamlsy
1201 fklldwlrte enelhgeklg wpqynwtpns arsegplpds grvsflgldl daqqarvgqw
1261 lllflgiall vatlglsqrl fsirhrslhr hshgppqfgse velrhs

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# FIGURE 5

```

1   gaattcatgc cccttttgaa atagacttat gtcattgtca gaaaacataa gcatttatgg
61  tatatcatta atgagtcacg attttagtgg ttgccttggt agtaggtcaa atttactaag
121 cttagatttg ttttctcaca tattctttcg gagcttggt agtttccaca ttaatttacc
181 agaaacaaga tacacactct ctttgaggag tgccctaact tcccatcatt ttgtccaatt
241 aaatgaattg aagaaattta atgtttctaa actagaccaa caaagaataa tagttgtatg
301 acaagtaaat aagctttgct gggaagatgt tgcttaaatg ataaaatggg tcagccaaca
361 agtgaaccaa aaattaaata ttaactaagg aaaggtaacc atttctgaag tcattcctag
421 cagaggactc agatatatat aggattgaag atctctcagt taagtctaca tgaaaaggat
481 ggtttcttgg agcttccaca aacttaaac catgaaacat ctattattgc tactattgtg
541 tgtttttcta gttaagtccc aagggtgtcaa cgacaatgag gaggtgaatt ttttaaagca
601 ttatttatatt attagtagta ttattaatat aagatgtaac ataatcatat tatgtgttta
661 ttttaatgaa attagcattg cttatagtta tgaaatggaa ttgttaacct ctgacttatt
721 gtattttaaag aatgtttcat agtatttctt atataaaaac aaagtaattt cttgttttct
781 agtttatcac ctttgttttc ttaagatgag gatggcttag ctaatgtaag atgtgttttt
841 ctacttgctc attctgagta ctgtgatttt catttacttc tagcaatata ggattacaat
901 taagaggaca agatctgaaa atctcacaaa ctataaaata ataaaagagc agaatttttaa
961 gataaaagaa actgggtgga ggtagattgt tctttggtga aggaaggtaa tatatatgtt
1021 tactgagatt actatttata aaaattataa ctaagcctaa aagcaaaata catcaagtgt
1081 aatgatagaa aatgaaatat tgcttttttc agatgaaaag ttcaaattag agttagtgtg
1141 tattgttatt attaatagtt atgaaacacg gttcagtcta atttatttat ttgtagaaca
1201 gtttgtcctc aactattatt tttgtcgact tattgctggt aatttgcagt tactaaaaat
1261 acagaaatgc atttaggaca atggatattt aagaaattta aattttatca tcaaacgtat
1321 catggccaaa tttcttacat atagcatagt atcattaaac tagaaataag aatacacaat
1381 aatattttaa tgaagtgatt catttcggat cattattgag tttcaaggga acttgagtgt
1441 tgtatttatc agactctaca tgtaagaaca tatagttaat ctgggtgtgt gtgtaaaaac
1501 atatggttaa tctggtttaa cttggttaat catattaggt aagaaaaatg taaagaatgt
1561 gtaagacgaa atttttgtaa agtactctgc aaagcacttt cacatttctg cttatcaact
1621 aaacctcaca gagatagttt aatagtttag gctttaaaat ggattttgat tattcaacaa
1681 gtggccttca taatttcttt aagtgttttt ctttaagtat atactttctt taaatatattt
1741 ttaaaatttc cttttctcta gtaaaagccag accatccatg ctacctctct agtggcactc
1801 tgaaataaaa agaaaatagt tttctctggt ataattgtat ttgtaataag cagatgaatc
1861 acatttctta aaatttggtt tagagagggg aagctctgac taggaccatg acttcaatgt
1921 gaaatatgta tatatcctcc gaatctttac atattaagaa tgtatatagt caactggtta
1981 aacaggaaaa tctggaacag cctggctggg ttttaattct agcaccatcc tactaaatgt
2041 taaataatat tataatctaa tgaataaatg acaatgcaat tccaaataga gttcatctga
2101 tgacttctag actcacaaaa ttgcaagaga gctcagttgt tgctcagttg ttccaaatca
2161 tgtcgtttgt taatttgtaa ttaagctcca aaggatgtat agctactgac aaaaaaaaaa
2221 atgagaatgt agttaatcca aatcaaaact ttcctattgc aatgcgtatt ttctgcttca
2281 ttatccttta atataatatt ttaagtttag aagraatttt aattacaatg cacaagcctt
2341 gagaattatt taaatatata gaaaatcata atgtttgata aagaaatcat gtaagaaatt
2401 tcaagataat ggtttaacaa ataattttgt tgatagaaga taagactaaa agtgaaattc
2461 gaagtggaga ggacacttaa actgtagtac ttgttatgtg tgattccagt aaaaatagta
2521 atgagcactt attattgcca agtactgttc tgagggtacc atatgcaata agttatttaa
2581 tccttacaat aatcttgtaa ggcagattca aactatcatt acacttattt tacagatgag
2641 aaaactgggg cacagataaa gcaacttgc caaggtctca tagctgtaag tcaaccctac
2701 ggtcaagacc tacaagtagc cgagctccag agtacattat gagggtcaaa gattgtctta
2761 ttacaaataa attccaagta gaatcaacct ttaataagtc tttaatgtct cttaaatatg
2821 tttatatagg agtctaatca ccaattcaca aaaatgaaag tagggaaatg attaacaata
2881 atcataggaa tctaacaatc caagtggctt gagaatatcc attcttcttg acagtataga
2941 ttctttacaa tttcgtaagt tccaatgtat gttttaggaa tatgagggtc ttactattca
3001 taatctgata cagctttatc ctaaggcctc tctttaaaaa ctacactgca tcatagcttt

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# FIGURE 5 (continued)

3061	tttgtgcagt	tggtctttct	actgttactg	aacagtaagc	aacctacaga	ttcaactatca
3121	ccaaccagcc	agttgatgga	tcttaagcaa	attatcaagc	ttgtgataac	ctaaattata
3181	aaatgagggt	gttgaatag	ttacattcca	aatcttctat	aacactctgt	attatatttc
3241	tgccctattc	cttgtagggt	ttcttcagtg	cccgtgggtca	tcgacccctt	gacaagaaga
3301	gagaagaggc	tcccagcctg	aggcctgccc	caccgcccac	cagtggaggt	ggctatcggg
3361	ctcgtccagc	caaagcagct	gccactcaaa	agaaagtaga	aagaaaagcc	cctgatgctg
3421	gaggctgtct	tcacgctgac	ccagacctgg	tgggtgcact	gatgtttctt	gcagtgggtg
3481	ctctctcatg	cagagaaagc	ctgtagtcac	ggcagctctg	taatgtttca	ctgaccacac
3541	ttaccatcac	tgttatTTTT	tttgtttatt	ttggaaataa	aattcaaaac	ataaacatat
3601	tgggcctttg	gttttaggct	tctttcttgt	tttcttttgt	ctgggcccaa	aatttcaaat
3661	taggatattg	gggtgccacc	tttccatttg	tatttttgcca	ctgcctttgt	ttagtTggta
3721	aaatTTTcat	agcccaatta	tattttttct	ggggtaagta	atatttttaa	tctctatgag
3781	agtataatga	tgactttcga	atttctggct	ttacagaaaa	ccaaataata	aatttttatg
3841	ttggctaattc	gtatcgctga	attttcttat	gtgctatttt	aacaaatgtc	catgacccaa
3901	atccttcatc	taatgcctgc	tattttcttt	gtttttaggg	ggtgttTgtg	cctacaggat
3961	gtcagttgca	agaggctttg	ctacaacagg	aaaggccaat	cagaaatagt	gttgatgagt
4021	taaataacaa	tgtggaagct	gtttcccaga	cctcctcttc	ttcctttcag	tacatgtatt
4081	tgctgaaaga	cctgtggcaa	aagaggcaga	agcaagtaaa	aggtagatat	ccttgtgctt
4141	tccattcgat	tttcagctat	aaaattggaa	ccgttagact	gccacgagaa	tgcatgggtg
4201	tgagaagatt	aacattttctg	ggtttagtgaa	tagcattcat	acgcttttgg	gcaccttccc
4261	ctgcaacttg	ccagataagc	actattcagc	tcttattccc	agtctgacat	cagcaagtgt
4321	gattttctat	gaaaaattct	actatgactc	cttattttta	gtatacaaga	aacttgtgac
4381	tcagaagata	atattttacag	agtggaaaaa	aacccttagc	atttatagtt	ttaacatttg
4441	aggttttgaa	tgagagagtt	atccataata	tattcaattg	tgttgtggat	aatgacacct
4501	aacctgtgaa	tcttgagggtc	agaatgttga	gtgctgttga	cttggtgggtc	aggaaacagc
4561	tagtgctgta	gcctggcaca	ggcatctcag	tgagttagcat	acccacagtt	ggaaattttt
4621	caaagaaatc	aaaggaaatc	tgacatctta	taaatttcaa	ggttctgcta	tacttatgtg
4681	aaatggataa	ataaatcaag	catatccact	ctgtaagatt	gaacttctca	gatggaagac
4741	ccaataactg	ctttctctct	ttttccctca	ccaaagaaat	aaacaacctc	tttcatttat
4801	tactggacac	aatcttttagc	gtatacctat	ggtaaattac	tagtatgggtg	gttaggattt
4861	atgttaattt	gtatatgtca	tgcgccaaat	catttccact	aaatatgact	atatatcata
4921	actgcttggt	gatagctcag	tgtttaatat	tttattctca	gaaaatcaaa	attgtatagt
4981	taaatacatt	agttttatga	ggcaaaaatg	ctaactattt	ctacataatt	tcatTTTTcc
5041	agataatgaa	aatgtagtca	atgagtactc	ctcagaactg	gaaaagcacc	aattatatat
5101	agatgagact	gtgaatagca	atatcccaac	taaccttctg	gtgcttcggt	caatcctgga
5161	aaacctgaga	agcaaaatac	aaaagttaga	atctgatgtc	tcagctcaaa	tggaatatgt
5221	tcgcacccca	tgcaactgtca	gttgcaatat	tctgtgggtg	tctggcaaaag	gtaactgatt
5281	cataaacata	tttttagaga	gttccagaag	aactcacaca	ccaaaaataa	gagaacaaca
5341	acaacaacaa	aaatgctaag	tggtttttcc	caacagatca	taatgacatt	acagtacatc
5401	ataaaaaatat	ccttagccag	ttgtgttttg	gactggcctg	gtgcatttgc	tggttttgat
5461	gagcaggatg	gggcacagg	agtcacagg	gtggctgatg	tgtgcactctg	cgtactggct
5521	tgaacagatg	gcagaaccac	agatagatgt	agaagtttct	ccatttttg	tggtctggga
5581	gctcatggat	attccaggac	acaaaagggtg	gagaagagct	ttgttcatcc	tcttagcaga
5641	taaactgcct	caaaactggg	ttggacttac	taaagtataa	tgaaaatcta	atatttggtt
5701	tattattttc	aaaggtctat	aataacacac	tccttagtaa	cttatgtaat	gttattttta
5761	agaattgggtg	actaaataca	aagtaattat	gtcataaacc	cctgaacata	atgttgtctt
5821	acatttgagc	aatgtgagga	aattatcagg	aaaggagggtg	aaacatctga	aatgtatctc
5881	attcaacctg	acagttctgt	caaaccgtat	agagtatact	gtgacatgaa	tacagaaaaa
5941	ggaggtaagc	tttcgacagt	tggtgacctg	ttgatctgta	attattttga	taccgtaaaa
6001	tgccaggaaa	caaggccagg	tgtggtgggt	catacctgta	attccagcac	cttgggaggc
6061	caaagtgggc	tgatagcttg	agcctaggag	tttgaaacta	gcctgggcaa	cataatgaga
6121	ccctaactct	acaaaaaaaa	aaaaaatacc	aaaaaaaaaa	aaaaaatcag	ctgtgttggt

## FIGURE 5 (continued)

6181	agtatgtgcc	tgtagtccca	gctatccagg	aggctgagat	gggagatcac	ctgagcccac
6241	aacctggagt	cttgatcatg	ctactgaact	gtagcctggg	caacagagga	tagtgagatc
6301	ctgtctcaaa	aaaaaaaaatt	aattaaaaag	ccaggaaaca	agacttagct	ctaactctta
6361	acatagctga	caaaggagta	at ttgatgtg	gaattcaacc	tgatatttaa	aagttataaa
6421	atatctataa	ttcacaattt	ggggtaagat	aaagcacttg	cagtttccaa	agattttaca
6481	agttttacctc	tcatatttat	ttccttattg	tgtctatttt	agagcaccaa	atatatacta
6541	aatggaatgg	acaggggatt	cagatattat	tttcaaagtg	acattatttg	ctggttggtta
6601	atatatgctc	tttttgtttc	tgtcaaccaa	aggatggaca	gtgattcaga	accgtcaaga
6661	cggtagtggt	gactttggca	ggaaatggga	tccatataaa	cagggatttg	gaaatggtgc
6721	aaccaacaca	gatgggaaga	attactgtgg	cctaccaggt	aacgaacagg	catgcaaaat
6781	aaaatcattc	tatttgaat	gggatttttt	tttaattaaaa	aacattcatt	gttggaagcc
6841	tgttttaggc	agttaagagg	agtttcctga	caaaaatgtg	gaagctaaag	ataagggaag
6901	aaaggcagtt	tttagtttcc	caaaaatttta	tttttggtga	gagattttat	tttgtttttc
6961	ttttaggtga	atattggcct	ggaaatgata	aaattagcca	gcttaccagg	atgggaccca
7021	cagaactttt	gatagaaatg	gaggactgga	aaggagacaa	agtaaaggct	cactatggag
7081	gattcactgt	acagaatgaa	gccacaaaat	accagatctc	agtgaacaaa	tacagaggaa
7141	cagccggtaa	tgccctcatg	gatggagcat	ctcagctgat	gggagaaaac	aggaccatga
7201	ccattcacaa	cggcatgttc	ttcagcacgt	atgacagaga	caatgacggc	tggtatgtgt
7261	ggcactcttt	gctcctgctt	taaaaatcac	actaatatca	ttactcagaa	tcattaacaa
7321	tattttttaat	agctaccact	tcttggggcac	ttactgtcag	ccactgtcct	aagctcttta
7381	tgcatactc	gaaagcattt	caactataag	gtagacattc	ttattctcat	tttacagatg
7441	agatttagag	agattacgtg	at ttgtccaa	tgtcacacaa	ctaccagag	ataaaaactag
7501	aatttgagca	cagttacttt	ctgaataatg	agcattttaga	taaatacctta	tatctctata
7561	ttctaaaagt	tgtgtgaaaa	ctttcatttt	catttccagg	gttctctgat	actaagggtt
7621	gtaaaagcta	tatttccagt	ataaagtaac	aaacacagtc	cctagatgga	ttgccacaaa
7681	ggcccagtta	tctctctttc	ttgctatagg	gcacaggagg	tctttgggtg	attagtgtga
7741	ctctatgtat	agcacccaaa	ggaaagacta	ctgtgcacac	gagtgtagca	gtcttttatg
7801	ggtaatctgc	aaaacgtaac	ttgaccaccg	tagttctgtt	tctaataacg	ccaaacacat
7861	tttctttcag	gttaacatca	gatcccagaa	aacagtgttc	taaagaagac	ggtgggtggat
7921	ggtggtataa	tagatgtcat	gcagccaatc	caaacggcag	atactactgg	ggtggacagt
7981	acacctggga	catggcaaag	catggcacag	atgatgggtg	agtatggatg	aattggaagg
8041	ggtcatggta	ctcaatgagg	aagatgagta	tgaagatcag	gcccttcttc	ccacagcaat
8101	agtccccaat	acgtagattt	ttgctcttct	gtatgtgaca	acatttttgt	acattatggt
8161	attggaattt	tctttcatac	attatatctc	tctaaaactc	tcaagcagac	gtgagtgtga
8221	ctttttgaaa	aaagtataag	ataaattaca	ttaaaatagc	acatgatatt	cttttggttt
8281	cttcatttct	cttgctcacc	caagaagtaa	caaaagtata	gttttgacag	agttgggtgt
8341	cataatttca	gttctagtgt	attgcgagaa	ttttcaaata	aggaagaggg	gtcttttatc
8401	cttgctgtag	gaaaaccatg	acggaaaagg	aaaactgatg	tttaaaagtc	cactttttaa
8461	actatatatta	tttatgtagg	atctgtcaaa	gaaaacttcc	aaaaagattt	attaattaaa
8521	ccagactctg	ttgcaataag	ttaatgtttt	cttgttttgt	aatccacaca	ttcaatgagt
8581	taggctttgc	acttgtaagg	aaggagaagc	gttcacaacc	tcaaatagct	aataaaccgg
8641	tcttgaatat	ttgaagattt	aaaatctgac	tctaggacgg	gcacggtggc	tcacgactat
8701	aatcccaaca	ctttgggagg	ctgaggcggg	cggtcacaag	gtcaggagtt	caagaccagc
8761	ctgaccaata	tggtgaaacc	ccatctctac	taaaaataca	aaaattagcc	aggcgtgggt
8821	gcagggtgct	gtaggtccca	gctagcctgt	gaggtggaga	ttgcattgag	ccaagatc



## FIGURE 6

1 mkrmvswsfh klktmkhl11 lllcvflvks qgvndneegf fsarghrpld kkreeapslr  
61 papppisggg yrarpakaaa tqkkverkap daggclhadp dlglvclptgc qlqeallqge  
121 rpirnsvdel nnnveavsqt ssssfqymyl lkdlwqkrqk qvkdnenvvv eysselekhq  
181 lyidetvnsn iatnlrvlrs ilenlrskiq klesdvsaqm eycrtpctvs cnipvvsgke  
241 ceeiirkgge tsemyliqpd ssvkpyrvyc dmttenggwgt viqnrqdgsv dfgrkwdpk  
301 qgfgnvatnt dgknycgldp eywlgndkis qltrmgptel liemedwkgd kvkahyggft  
361 vqneankyqi svnkyrgtag nalmdgasql mgenrtmtih ngmffstydr dndgwltzsd  
421 rkqcskedgg gwwynrchaa npngryywgq qytwdmakhg tddgvvwmnw kgsywsmrkm  
481 smkirpffpq q

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100